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WORLD RADIO HANDBOOK

for Listeners



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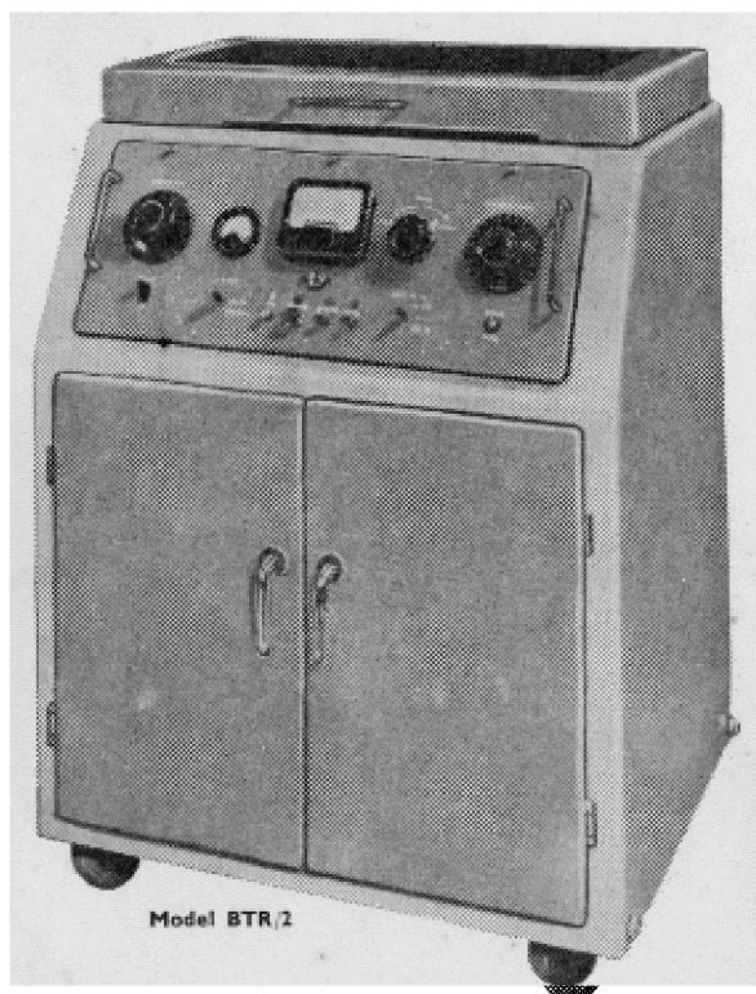
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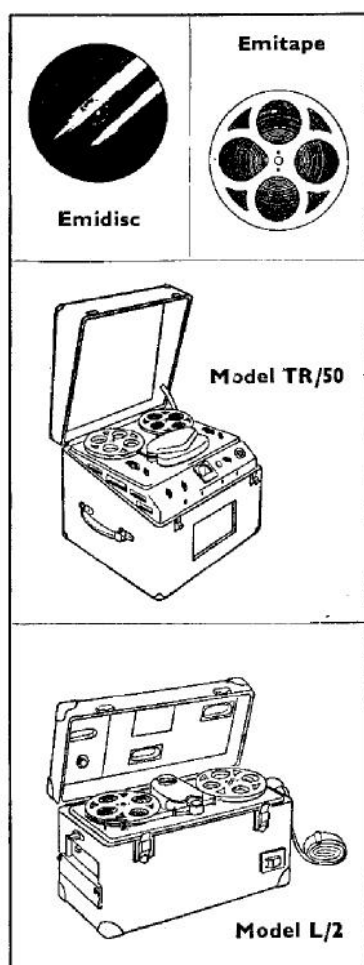
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WORLD RADIO-TELEVISION- HANDBOOK

including World-wide Radio WHO's WHO

For the promotion of a better understanding between the peoples of the world

Eighth Edition

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November 1953

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O. LUND JOHANSEN

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ALL OVER THE WORLD

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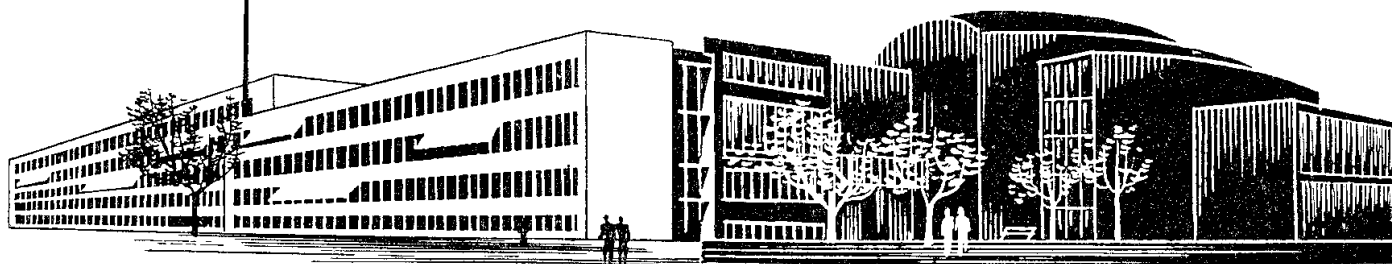
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PREFACE

By comparison with earlier editions, the present edition of World Radio Handbook represents a considerable advance, for not only all short-wave stations—and many new ones have arisen—but practically all medium-wave stations, FM-stations, and, particularly, all television stations in the world are included.

It is hoped and believed that the 1954 edition depicts in a graphic, correct and satisfactory manner the enormous development that has taken place during the past year within the spheres of radio and television—particularly with regard to the latter.

It is quite natural that regular television programmes should first have been started in countries possessing the most highly developed industries: U.S.A., Great Britain, the Soviet Union, France, Germany, Japan and others. But during the past year most other countries have begun or planned to begin television programmes, a development that will entail a fundamental change in the means of communication between the peoples of the world.

International television cooperation opens fresh opportunities to further international understanding. Programme exchanges by means of film is slowly gaining ground, but the direct transmission of television programmes from country to country is far more important. The European television net will make possible in 1954 the direct transmission of television programmes between Gt. Britain, France and Germany, and the technical basis for a further extension of cooperation in the field of European television (Denmark, Belgium, Holland, Switzerland and Italy) will follow rapidly.

A television set is like a window opening out on the world. The "viewer" experiences events far from his home. Television makes it possible for millions of people to be affected by the same events, personality or artistic contribution. A combination of detail programmes, based and concentrated upon some central idea, would, with the aid of television, be able to provide the viewer with a deeper appreciation of many technical problems and human relations than by other means. Here lies the great importance of television—as a living diffuser of education and culture.

It is my firm hope that this edition of World Radio Handbook succeeds in furnishing a full and practical survey of radio and television today—the two mightiest factors of our century for the promotion of understanding between peoples—and that it can satisfy the needs of all interested persons, whether they be *world listeners*, (who wish to follow the programmes of other countries), *broadcasting and television stations* (who desire to keep up to date by following developments elsewhere), *commercial stations* (that wish to call attention to the value of their programmes as a sales medium), *manufacturers of radio and television equipment* (who wish to extend their export sales), *radio technicians*, *radio amateurs*, or others.

My thanks are due to the United Nations, UNESCO, the international radio organisations, and the many radio stations all over the world who in various ways have supported World Radio Handbook and thus its aim: the promotion of international understanding—and, finally, I must express my thanks to the many world listeners, who have contributed valuable information.

Copenhagen, November 1953.

LUND JOHANSEN
Publisher, Editor.

MESSAGES TO THE WORLD RADIO HANDBOOK

UNITED NATIONS

Dear Mr. Lund Johansen.

The quickest way to let you know how the Radio Division feels about the latest edition of World Radio Handbook is to tell you that we have ordered from your U.S. agent 10 copies for ourselves. That means there will be one in each office responsible for directing the whole or a part of the Division's activities.

After going carefully through the Handbook from page 1 to page 124 I am filled with admiration. The way in which the individual countries' broadcasting services are set out in a brief space with the utmost clarity and simplicity and your success in keeping abreast of developments by including not only long, medium and short-wave stations but FM stations and television stations, not to mention the time chart and a reference list of international call signs—these make the Handbook invaluable.

If one of the purposes of the United Nations is, as the Charter puts it, "to be a centre for harmonizing the actions of nations in the attainment of these common ends", your World Radio Handbook certainly serves the same purpose in its field by harmonizing and vastly facilitating the interests of radio listeners all over the world. The cooperation you receive from all countries is obvious from the contents of the Handbook, while the extent to which it is already used we can guess here from the number of listeners who write saying that they have read about United Nations Radio in the Handbook, have listened to its broadcasts and would like to see the schedules regularly.

I can only say again that the Radio Division is grateful to you for the opportunities you have given us to print messages from the Director and Deputy Director as well as the general description of our service.

Yours sincerely
HUGH WILLIAMS
Chief, Central Radio Services.

UNESCO

Dear Mr. Lund Johansen.

The Unesco Radio Division has found the World Radio Handbook of great value; and I know that many broadcasting stations throughout the world share this opinion.—I am confident, that broadcasting stations will send to the World Radio Handbook the information that is necessary to keep it up to date.

GORDON FRASER
Head, Radio Division.
Department of Mass Communication.

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- a balanced view of public affairs •*
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- significant interviews •*
- informative commentaries •*
- cultural programs •*



See Voice of America program listing on page 91.

*Program schedules and frequency listings are
also available at offices of the U. S. Information
Service, United States embassies and consulates.*

TABLE OF CONTENTS

A message from United Nations	7	Broadcasting receivers in the World ..	22
How to use the World Radio Handbook ..	9	The use of the different bands	24
A message from Unesco	13	International Allocation of Call Signs ..	24
Time in all countries	16	Standard frequency stations	116
European Broadcasting Organisation ..	18	A world survey of television	117
International Broadcasting Organisa- tion	18	Cooperating shortwave clubs	120
Table of the most suitable metre bands for the best short wave reception ..	21	Long- and mediumwave stations	121
		Shortwave stations of the world	125
		Representatives and collaborators	136

Aden	70	El Salvador	102	Japan	77	Rumania	50
Afghanistan	70	Eritrea	63	Kashmir	78	Ryukyu Islands	86
Albania	27	Ethiopia	63	Kenya	64	S. Tomé	66
Algeria	60	Falkland Islands	112	Kuwait	79	Saudi Arabia	81
Andorra	27	Finland	31	Laos	76	Solomon Islands	88
Angola	60	Fije	84	Lebanon	79	Samoa, Western	88
Argentina	103	France	32	Libya	64	Senegal	66
Australia	83	French Equatorial Africa	63	Liberia	64	Seychelles	66
Austria	28	Germany	33	Luxembourg	47	Somaliland (British) ..	67
Azores	62	Goa	71	Macau	79	Somaliland (Italian) ..	67
Barbados	95	Gold Coast	64	Madagascar	64	Southern Rhodesia ..	66
Belgian Congo	62	Great Britain	38, 42	Madeira (Portugal) ..	49	Spain	51
Belgium	29	Greece	42	Malaya	79	Sudan	67
Bechuanaland	62	Greenland	43	Martinique	99	Sumatra	73
Bermuda	95	Guadeloupe	97	Mauritius	65	Surinam	114
Bolivia	106	Guam	84	Mexico	100	Sweden	52
Borneo North	70	Guatemala	97	Moluccas	74	Switzerland	53
Brazil	106	Guiana (British)	112	Monaco	47	Syria	81
Bulgaria	30	Guiana (Dutch)	114	Mongolia	79	Tanganyika	67
Burma	70	Guiana (French)	112	Morocco (French)	65	Tangier	67
Cameroon	62	Guinea (Portuguese) ..	64	Morocco (Spanish) ..	65	Tahiti	88
Canada	88	Guinea (Spanish)	64	Mozambique	65	Taiwan	81
Canary Islands	63	Haiti	98	Nepal	79	Thailand	81
Cape Verde Islands ..	63	Hawaii	84	New Caledonia	84	Transjordan	82
Ceylon	70	Holland	43	New Guinea (Dutch) ..	84	Trieste	55
Chile	109	Honduras (Rep.)	99	New Zealand	84	Trinidad	103
China	70	Honduras (British) ..	99	Nicaragua	101	Tunisia	68
Colombia	109	Hong Kong	71	Nigeria	66	Turkey	82
Combodia	76	Hungary	45	Northern Rhodesia ..	66	Uganda	68
Costa Rica	95	Iceland	45	Norway	47	Union of South Africa ..	68
Cuba	96	India	72	Pakistan	79	United Nations	94
Curacao	111	Indo-China	75	Panama	102	Uruguay	114
Cyprus	71	Indonesia	73	Paraguay	113	U. S. S. R.	55
Czechoslovakia	30	Iran (Persia)	76	Peru	113	U. S. A.	91
Denmark	30	Israel	76	Philippine	84	Vatican	57
Dominican Republic ..	97	Italy	45	Pitcairn Islands	86	Venezuela	115
Ecuador	111	Ivory Coast	64	Poland	48	Vietnam	75
Dahomey	63	Jamaica	99	Portugal	49	Yugoslavia	58
Egypt	63			Puerto Rico	102	Yemen	82
Eire	31			Reunion	66	Zanzibar	68

The Editor of World Radio Handbook seeks information from all stations engaged in broadcasting and interested in international broadcasting and publish the information as they communicated to him by the stations. The Editor cannot be held responsible for the correctness of these information or for the not publishing schedules and other particulars of stations, which do not supply the information or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

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day

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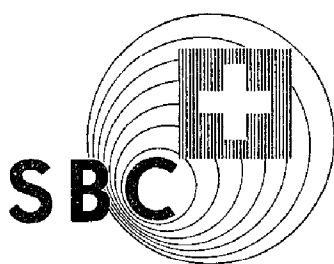
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Full details on page 53



Dag Hammarskjöld
Secretary-General of the United Nations.

Message from the United Nations

THE GREATEST PRAYER OF MAN DOES NOT ASK FOR VICTORY BUT FOR PEACE.

By Peter Aylen

*Director, Radio Division, Department of Public Information,
United Nations.*

The records of our crowded times are stored up in fragments, day by day, in the archives of countless individual minds. Everything is there—technical miracles, great feats of political evolution, some completed others painfully in process, changes in the relationships of vast groups of men and women, news pouring in from near and far. Sometimes, as we look back on a week, its history makes little sense. Friday's news was a mockery of Thursday's, Saturday's made hay of both. Yet, above the turmoil and the shouting there can be in any mind a quiet place where one may enter and begin to understand. What key to the world's news must one have to unlock this place? Simply the word "interdependence".

Whether we like it or not we have all become members one of another. In terms of space at least the world has shrunk to one neighborhood. Long ago first tribes then villages and petty dukedoms found that they could not continue to live securely by themselves. Reluctantly they learned that they must unite into larger groups. Only thus could they share and preserve their resources and their freedoms under the rule of law.

In our day all the nations, however dissimilar their history and their outlook, are learning to apply the same lesson. That it seems to me is the essence of today's news, that and one other fact. The cloud on the horizon of the world's stage it not only larger than a man's hand. It billows upward and outwards like a giant mushroom. Either the clean winds of common sense and faith in man will spring up and disperse the cloud or it will spread over the earth to disperse us—to blight and blast every living thing.

Interdependence—we hang together, determined to work out every problem round a table even if it takes years, or else we burn together. As the second World War came to an end that thought made us resolve, in the Charter's phrase, "to combine our efforts" and set up at San Francisco the organization or international machinery known as the United Nations. Like any other machinery it will fulfill its purpose if it is given driving power, if the operators handle it intelligently and faithfully and if the company's shareholders give them close, critical but friendly support.

You are all shareholders in the United Nations and as such entitled to reports on its work. An annual report of course is given by the Secretary-General to the General Assembly of representatives from all the member countries. But news from the United Nations must also go out all through the year, considering that one major political problem after another is publicly referred to it for action and that it is constantly hammering out in open debate practical measures for bringing healthier and happier and more settled conditions of life to peoples all over the world.

From the public and universal nature of its tasks and the array of obstacles which it inevitably has to surmount the United Nations cannot help being daily "in the news". Since it is Everyman's Organization the Department of Public Information of the Secretariat is there to help bring this news to everyone through all the existing agencies of information, press, films, photos, television and radio.

Thirty years have made us all used to radio. We forget that it is still new, with powers still untired. "The isle is full of noises, sounds and sweet airs" but even more numerous, there are voices in the air. Some are local, others carry to the ends of the earth, for their themes make up the whole range of human activity. Broadcasting is thus the finest instrument ever devised to spread understanding and goodwill and cheerfulness. Yet like any instrument it can be degraded to serve bad ends and we remember it has proved invaluable to traffickers in prejudice and hate, to braggarts and tyrants.

Thanks to the close and friendly cooperation of broadcasting services in almost all countries, there must be few listeners unable to hear five or six days a week news from the United Nations given by their correspondents or by United Nations Radio rebroadcast on their own home wavelengths. Many listen to these transmissions as they are beamed to national stations from Headquarters and from the European office in Geneva for nine hours a day in 25 languages. Others again tune in to direct broadcasts of the General Assembly and the Security Council. You remember perhaps the meeting of April 1953 when radio booths overlooking the Plenary Hall were crowded as United Nations and network commentators described in English, French, Spanish, Russian and Swedish the installation of the new Secretary-General, Mr. Dag Hammarskjöld, of Sweden. "Common to us all", he said at one point, "and above all other convictions, stands the truth once expressed by a Swedish poet when he said that the greatest prayer of man does not ask for victory but for peace."

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HOW TO USE THE WORLD RADIO HANDBOOK

The practical information given in the following section in respect of the broadcasting services of each individual country includes:

The Addresses of the broadcasting companies in question. Where broadcasts are commercial, this is stated.

Names and Titles of the leading personalities in each company.

List of Stations operated by each company with call signs of their transmitters, all frequencies and wavelengths (medium- and shortwaves), as well as their power expressed in kilowatts.

Each short-wave station has its own identification call sign consisting of 3–5 letters or a combination of letters and figures of which the first, or two first, denote the nationality in accordance with the international list of station prefixes. (See page 24.) Some short-wave stations, the American for example, use these call-signs when announcing themselves.

Long and medium wave stations are divided into three categories, viz. (1) *Main Stations*, which are so powerful that they can generally be heard throughout the whole area of the country in question, and from which most of the broadcasts emanate; (2) *Regional Stations*, which can be heard only within a certain area of the country, and whose broadcasts consist partly of re-transmissions of the programmes of the main stations and partly of their own programmes; (3) *Relay and Local Stations*, which mostly re-transmit main station programmes. These relay stations are the weakest, and are local stations which can be heard only within a limited area.

Most short wave stations use directional aeriels, i.e. their broadcasts are directed toward particular areas, and these give the names to the various services: European Service, Near Eastern, Middle Eastern, Far Eastern, Pacific, Latin-American, Caribbean Service, etc. Language and frequency employed vary according to the area to which broadcasts are directed.

Times are shown on the 24 hours system. In this system midnight is 00.00 hrs., 3 am: 03.00 hrs., 10 am: 10.00 hrs. and midday 12.00 hrs. Instead of starting again at 1 o'clock, as the 12-hour system does, the 24-hour system continues to increase the number of each hour until 23.59 (11.59 pm.) is reached. Thus 13 hrs. is 1 pm., 17.00 hrs. 5 pm. and so on. The great advantage of the system is that it eliminates any possible confusion between times a.m. and times p.m.

Frequency and Wavelength. Frequency and Wavelength are divided into the following groups: *Long waves* with frequencies from 133 kc/s (1961 metres) to 500 kc/s (600 metres). *Medium waves* with frequencies from 500 kc/s (600 metres) to 3000 kc/s (100 metres). *Short waves* with frequencies from 3000 kc/s (100 metres) to 30000 kc/s (10 metres).

The wavelength of a station is measured in metres, a metre being approximately $1\frac{1}{10}$ yards. The wavelength is the distance in metres between the crests of any two consecutive waves. For every wavelength there is a corresponding frequency, which is the number of complete waves, or cycles, sent out by a station in every second. A kilocycle is 1000 cycles; a megacycle 1,000,000 cycles.

There is a simple relationship between these quantities as both wavelength and frequency are determined by the velocity of propagation of radio waves in space; this relationship is

$$\text{Wavelength} = \frac{\text{Velocity}}{\text{Frequency}}; \text{ or } \text{Frequency} = \frac{\text{Velocity}}{\text{Wavelength}}$$

As the velocity of propagation in space is, in round figures, 300,000,000 metres per second, any of the quantities—metres, kilocycles or megacycles—are readily converted into the other forms by means of the following formulae:

$$\text{Metres} = \frac{\text{Metres to Kilocycles}}{\text{Frequency (kc/s)}} \quad \text{300,000}$$

$$\text{kc/s} = \frac{\text{Kilocycles to Metres}}{\text{Wavelength (metres)}} \quad \text{300,000}$$

$$\text{Metres} = \frac{\text{Metres to Megacycles}}{\text{Frequency (Mc/s)}} \quad \text{300}$$

$$\text{Mc/s} = \frac{\text{Megacycles to Metres}}{\text{Wavelength (metres)}} \quad \text{300}$$

Shortwave broadcasting takes place mainly on the following metre bands (m. b.):

49 metre band – 41 metre band – 31 metre band – 25 metre band – 19 metre band – 16 metre band – 13 metre band and 11 metre band.

Many short-wave stations lie outside these bands. The 60 and 80 metre bands are used for local broadcasting, i.e. for reception over relatively short distances, which applies, for example, to many South and Central American stations and stations in Central Africa.

Broadcast receivers have their tuning scales calibrated in metres, kilocycles, megacycles or with the names of the principal stations. Metres or kilocycles markings are as a rule used on the medium- and long-wave bands, while metre bands kilocycles or megacycles are used on the short waves.

In the following pages you will find a large variety of call-signs and frequencies. In many cases these belong to the same transmitters which are connected to different aeriels designed to radiate signals to the best advantage in respect of each service. The various call-signs serve to identify individual transmissions and frequencies.

Many programmes are broadcast simultaneously from several transmitters on different frequencies, which enables you to select the one which is the most clearly audible in your area or on your particular receiver. If reception on one of the frequencies used is poor, you should examine reception conditions on the other frequencies employed by the same station. On page 21 you will find a table of the most suitable metre bands for best short-wave reception in every part of the world at various times of the day throughout the year 1954.

Daily Programmes: Under this heading you will find information concerning the total broadcasting hours on the different frequencies employed during transmission hours, as well as a survey of the news.

Announcements: The language alone is not a conclusive indication of the origin of a broadcast to which you may be listening. Hearing a programme in French or Spanish, for instance, does not necessarily mean that it is transmitted by a French or Spanish station respectively. To make sure of identifying a station correctly, it is, therefore, essential to wait for the announcement which every station broadcasts at regular intervals. These call signs are given in this book for practically all the stations listed.

Interval-Signals: For identifying stations it is also of importance to know the signals used during the intervals between programme items. Under each station you will, therefore, find a indication of the type of signal used, and in many cases a reproduction of the musical notes of this signal.

QSL-Cards. As indicated in the survey of the broadcasting services of the various countries, many of the stations listed are interested in receiving reports from listeners in respect of their transmissions. These stations acknowledge such reports by sending listeners a QSL- (verification) card or a letter. For most of these stations it is stated whether reports are answered by QSL card or letter and if return postage is required. Many short-wave listeners make a hobby of collecting these QSL-cards which are often elaborately designed and colourful, sometimes with pictures of the station and its location, photos of the personnel, and other interesting particulars.

Reports from Listeners: Listeners' reports can in most cases be written in English, but Spanish is preferable when writing to South or Central American stations.

Report of Reception. I heard your station on the (date) from—to—(GMT, EST, CST or PST) on kc/s. The strength (varied (fading QSB) or was steady) and (just audible QSA1, weak QSA2, rather good QSA3, good QSA4, or excellent QSA5)—(with no disturbances; with disturbances from atmospherics QRN; with interference from broadcasting stations or telegraph stations QRM).

My receiver is a _____ with _____ tubes.

My antenna is of the _____ type, _____ feet long, outdoors or indoors.

Details of Programme: F.inst. announcements, languages, symphony, jazz or dance orchestra, classical popular, native etc. music, interval-signal, man or woman.

Remarks or suggestions:

My address:

If reply postage is requested by a station, enclose with your reports an International Reply Coupon obtainable at most post offices. The full address of each station will be found in the individual surveys for each country.

Local Time Conversion:

On page 16 you will find a Local Time Conversion Table which gives the local times (summer and winter) in most parts of the world in relation to Greenwich Mean Time (G.M.T.). For example, from September to May it is 15.00 hours New York time when it is 20.00 hours G.M.T., since the table indicates that local time in New York is 5 hours ahead of G.M.T. From May to September U.S.A. introduces day-light saving time and, consequently, it is 16.00 hours New York time when it is 20.00 hours G.M.T.

How to tune in your favourite short-wave station:

It requires some practice to adjust receivers correctly to a short-wave station. A movement to either side by a mere hair's breadth may give the correct adjustment. Once the station has been found, it must be finely adjusted by gently turning the dial knob backwards and forwards, simultaneously increasing the volume until the station in question can be heard distinctly, and identified. If the tuning knob is turned too quickly, a weak station may easily be passed over.

Reception conditions for short waves can be very capricious. After listening to a far-distant station for a short time, it may suddenly disappear completely (fade) and not return immediately.

Some broadcasts are often transmitted on several wavelengths simultaneously. If after adjusting your receiver to the station to which you wish to listen, you find reception unsatisfactory, try the other wavelengths used by the same station during the period in question.

How to identify a short-wave station:

Whenever you come across a station which is unknown to you, proceed as follows for identification: Read the approximate frequency indicated on your dial in megacycles or kilocycles or the wavelength in metres. Find from the table of frequencies and wavelengths what station are working in the neighbourhood of the reading shown by your dial. When you have reduced the source of the broadcast to one or two possibilities and at the same time noted details of the program heard and the language used, check these data against the program surveys printed in this Handbook. For confirmation it is advisable to wait for the station announcement or interval signal mentioned previously.

WORLD RADIO TELEVISION HANDBOOK BULLETIN

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World RADIO HANDBOOK, Lindorffsallé 1, Hellerup.

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Written by the editor of the World Radio Handbook and a team of international experts.

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ROCKE

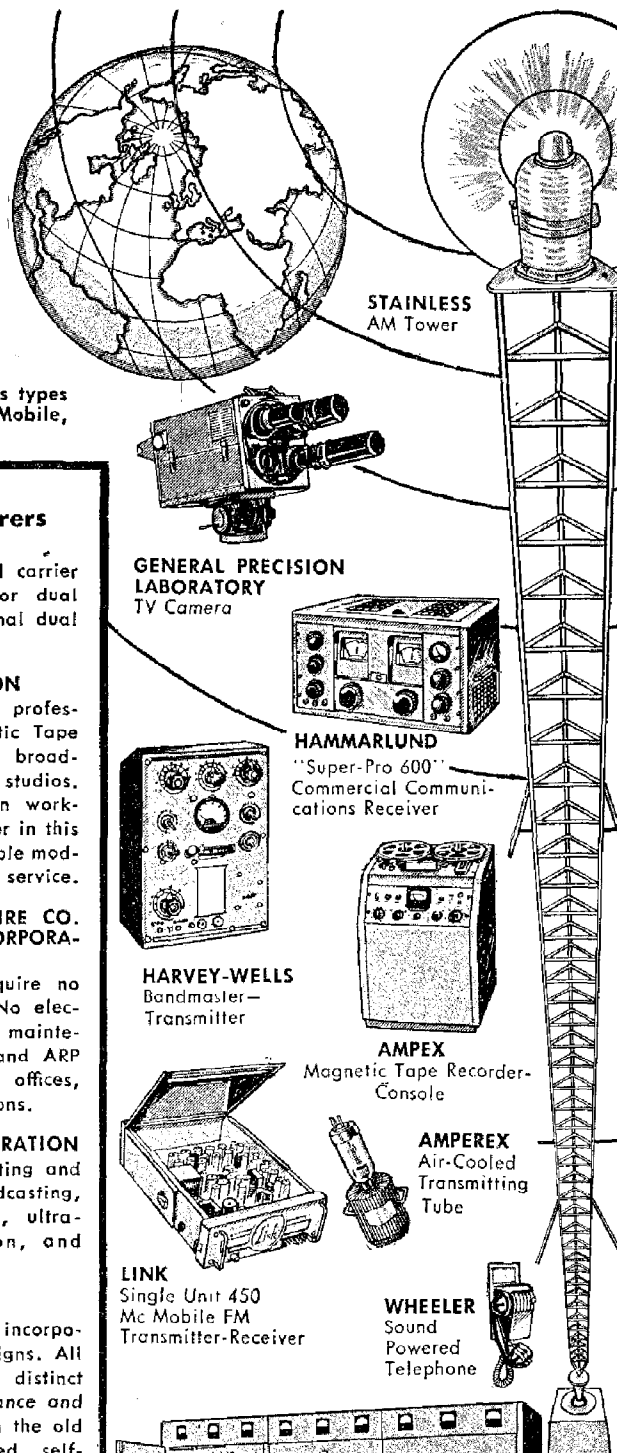
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From the simplest "Packset" to powerful Radio and TV Transmitters Rocke offers types and sizes to suit exactly your operating requirements, whether Fixed Station, Mobile, Portable or Airborne.

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AM FM TV towers and arrays incorporating the most advanced designs. All welded tubular members offer distinct advantage of less wind resistance and greater structural stiffness than the old angle iron type towers. Guyed, self-supporting, insulated, non-insulated. Towers up to 1700 feet.
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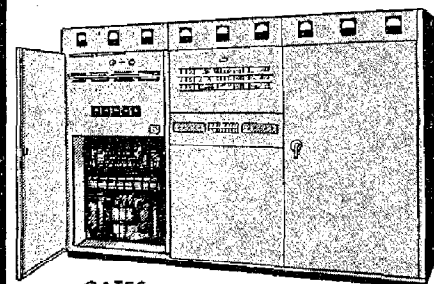
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CABLES: ARLAB, New York, N. Y.

Do you ever listen to

RADIO NORWAY?

The transmissions are to a great extent aimed at keeping Norwegians abroad and the members of the Norwegian Merchant Marine, which is roaming the Seven Seas, informed about the latest happenings in their homeland. But the last 15 to 20 minutes of each of the six daily transmissions beamed towards all parts of the Globe will usually consist of Norwegian music, which is introduced in English as well as in Norwegian. And every Saturday, and also very often on Wednesdays, the last half hour of the transmissions will be a letter box programme, in which is played listeners' request records. Just write to RADIO NORWAY, SHORT WAVE DIVISION, OSLO, NORWAY. For technical details, see page 47. Every Sunday an additional 20 minute programme in English, NORWAY THIS WEEK, is added to all the special transmissions.



Have you tuned in to

RADIO AUSTRALIA

to-day?

Radio Australia – the Overseas Service of the Australian Broadcasting Commission – transmits a wide range of programmes in English, French, Indonesian and Thai. The service aims to promote goodwill and understanding by making better known, in other countries, Australia's achievements and aspirations, political, economic and cultural, and the outlook and way-of-life of Australians. Information is given in news, talks, documentaries, features and magazine programmes. (For technical details, see page 83) Radio Australia invites listening friends to write for a free 20 page copy of the attractive quarterly programme guide.

OVERSEAS SERVICE – AUSTRALIAN BROADCASTING COMMISSION

Post Office Box 780H, G. P. O., Melbourne,

AUSTRALIA

UNESCO RADIO

The use of Radio on the international scale presents problems which are different from those encountered by broadcasters at the national level. The local broadcaster is closer to his listeners and can more easily adapt his programmes to his audiences' preference, but he lacks certain source of programme material which are only available to the international broadcaster. The latter therefore must constantly be in close contact with the local broadcaster, who is the final judge of the quality and impact of every programme. Listener research on the international scale is all but impossible, and the international broadcaster must therefore depend on the opinion of local broadcasting stations for knowledge of the value and impact of his programme. It is they who will tell him whether he is achieving his purpose or not. For the past four years, the Unesco Radio Division has made it a primary task to ascertain the requirements of each country, and indeed of each region within a country. In some parts of the world these requirements vary widely from one sector to another. Insofar as possible, local requirements are being met. There is no such thing as an international, or even a local common denominator, but by establishing close relations with radio producers and directors locally, it is possible to produce suitable programmes and programme material from the vast international sources available to an organization such as Unesco. This is the prime task of the Radio Division. In this way Unesco has established liaison with over 250 stations and networks, and a certain number of these are visited every year by members of the headquarters staff. Over 6,000 copies of approximately 900 recorded programmes are distributed each year. These take the form of interviews, talks, commentaries and particularly 15 to 30 minute features. The latter have had very wide acceptance. At present, practically all the feature programmes are produced either in English, French or Spanish, but talks and a few interviews have been recorded in over 20 languages, and the scripts of the features, together with recordings of the bridge music and sound effects are sent to stations using other languages for local production. This has been the most effective way of overcoming the language problem.

In addition, a weekly radio bulletin, the Unesco World Review, is distributed to a very large number of stations in English, Spanish, French and Arabic. This bulletin is useful as a means of getting material broadcast in certain countries which would otherwise have little or no material at all, and through stations in certain regions which are not within the radius of the stations using the recorded material. The bulletin is also used as a complementary programme, or as a source of programme material by many stations. The transcription form is eminently suitable to the purposes of Unesco because it is not a "news-making" Agency. Most Unesco material can stand the delay consequent to transcription, dubbing or pressing and shipping, without losing its appeal. In this way, Unesco is different from UN, where a transmission service is imperative. There day to day events must be aired while they are still news. However, during a Unesco General Conference, or during some important meeting or ceremony, the Unesco Radio Division uses lines or the cable services to get its reports quickly to important networks or stations. The foregoing are the principal elements of the work being carried out by the Radio Division. Some of the problems have been solved, and new ones are being met every day, but the slow but constant build-up of co-operation and goodwill between this Division and radio organizations in over 80 countries and territories is, perhaps, its major achievement.



'On the air' 16 hours daily with short-wave broadcasts to all the world.

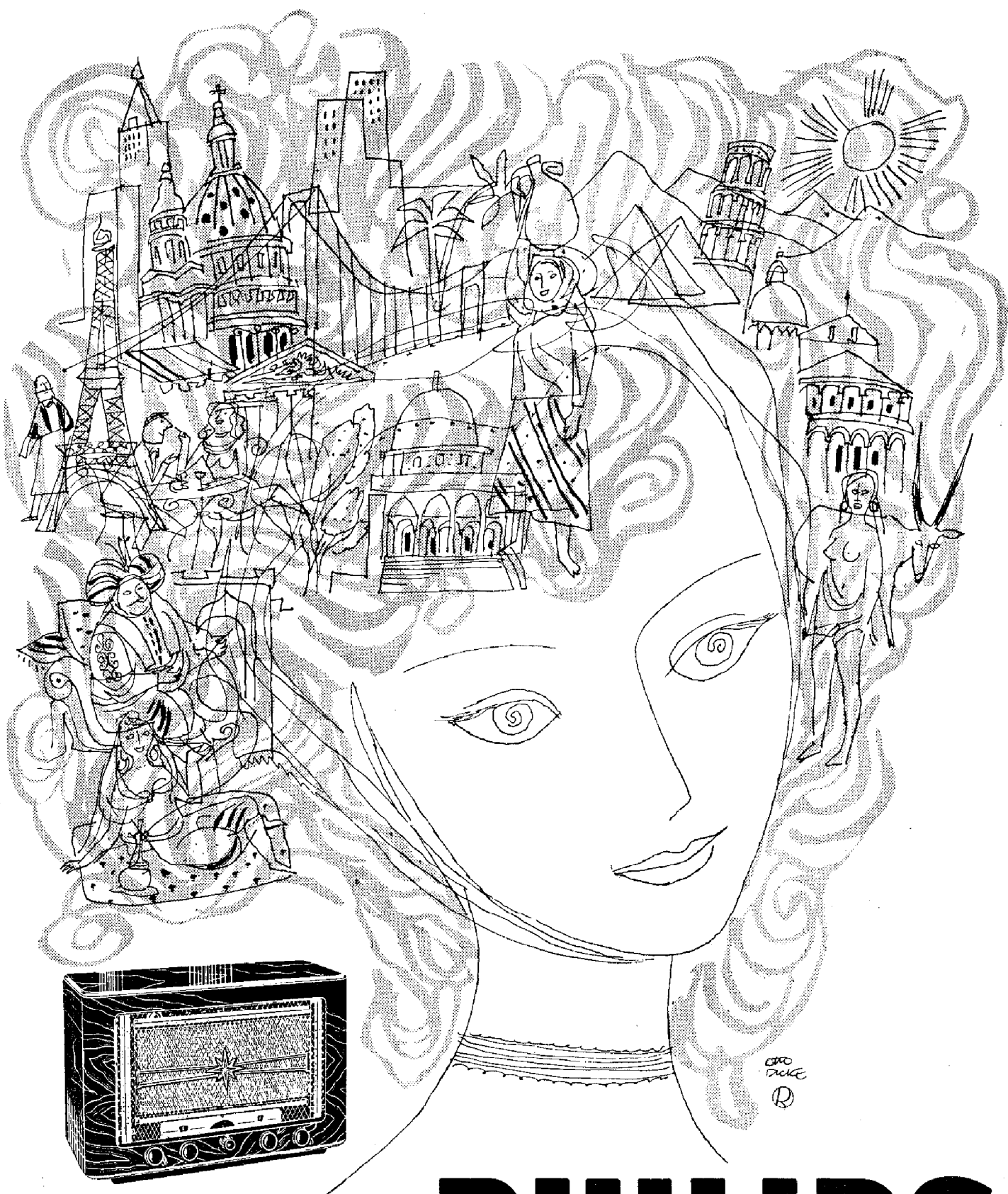
News, commentaries, special features and musical programs in 16 languages: English, French, German, Dutch, Danish, Swedish, Norwegian, Finnish, Italian, Spanish, Portuguese, Czech, Slovak, Polish, Russian and Ukrainian.

Monthly program schedule available free on request.

canadian broadcasting corporation

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(FOR BROADCAST FREQUENCIES AND TIMES SEE PAGE 88)



PHILIPS

Roaming around the world in your armchair

Few of us have ever had the opportunity to go and see places all over the world. To see famous towns, to be eye-witnesses at great world-events, to attend concerts conducted by a Toscanini or other world-famed maestros, or to learn what is going on in other countries.

But do you realize that you can make real world trips day after day whenever you want? You can do it with a Philips radio. Philips radio spans the world and brings continents and countries so close to each other that one day could be enough to visit London with its famous Music Halls, to hear real old Vienna waltzes, to dance with your friends on the music of America's favourite dance orchestras, to attend an international sport-meeting in France or to dream whilst listening to the soft and melodious music of the Hawaiian islands.

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1954 Radioplayers

TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked ÷ indicate number of hours behind G. M. T.

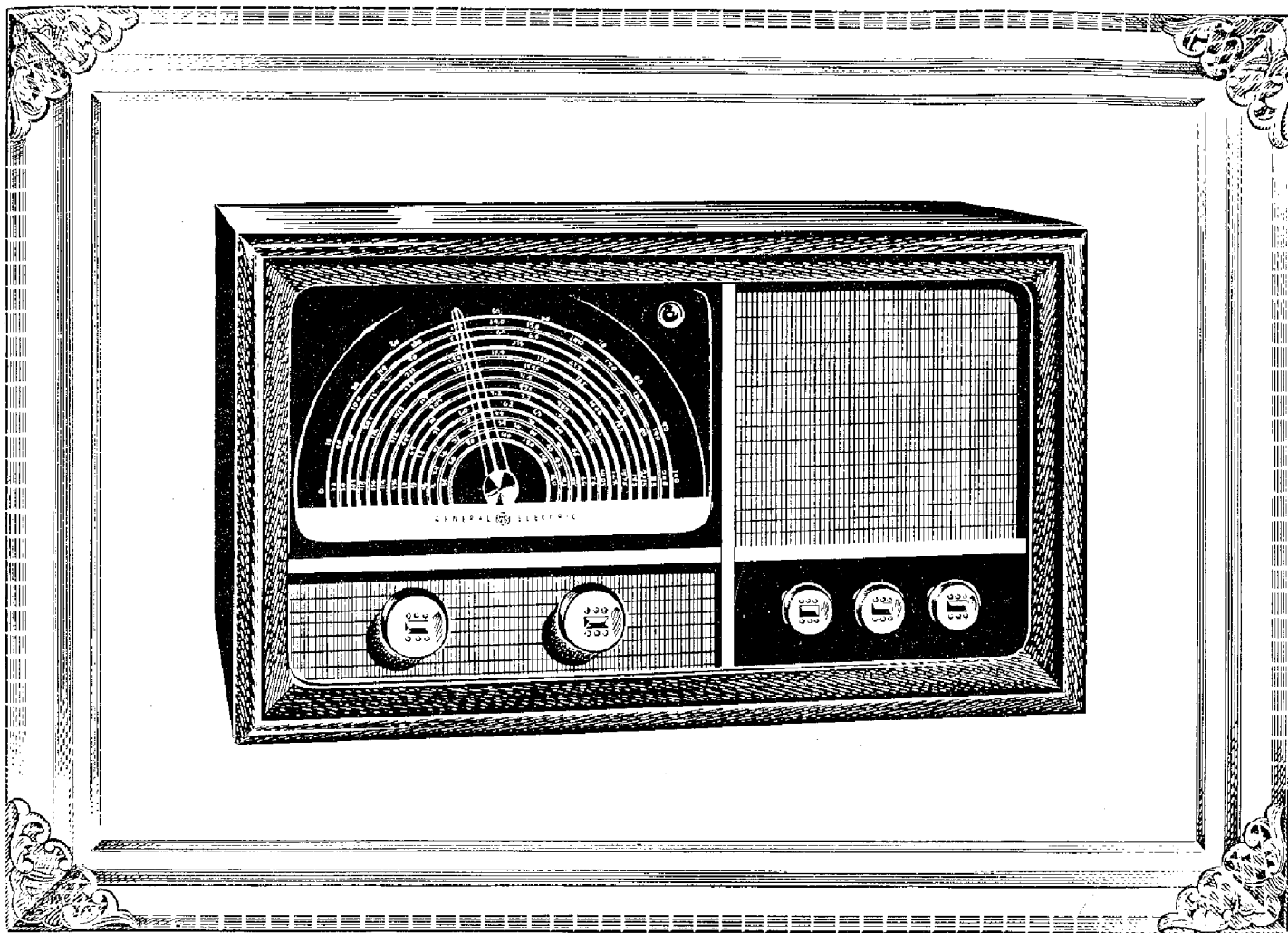
	Normal clock Time	Summer Time		Normal clock Time	Summer Time		Normal clock Time	Summer Time		Normal clock Time	Summer Time
Aden	+3	+3	Colombia	÷5	÷5	Iraq	+3	+3	Ryukyu Isl.	+9	+9
Afghanistan	+4½	+4½	Costa Rica	÷6	÷6	Ireland			Samoa Islands	÷11	÷11
Albania	+1	+1	Cuba (W.I.)	÷5	÷5	(Northern)	GMT	+1	S. Pierre	÷4	÷3
Algeria	GMT	+1	Curacao	÷4½	÷4½	Israel	+2	+3			1¼-15/10
		1/5-30/9	Cyprus	+2	+2			1/5-31/10	S. Tomé	GMT	+1
Andorra	+1	+1	Czechoslovakia	+1	+1	Italy	+1	+1	Sarawak	+8	+8
Angola	+1	+1	Denmark	+1	+1	Jamaica (W.I.)	÷5	÷5	Saudi Arabia	+3	+3
Arabia	+3	+3	Dominican Re-			Japan	+9	+9	Senegal	GMT	GMT
Argentina	÷3	÷3	public (W.I.)	÷5	÷5	Kenya	+3	+3	Sierra Leone	GMT	+½
Australia			Ecuador	÷5	÷5	Korea	+9	+10			1/5-31/10
a) Victoria,			Egypt	+2	+2	Lebanon	+2	+2	Somaliland		
New South			Eire	GMT	+1	Liberia	÷1	÷1	(British, Italian)	+3	+3
Wales,					10/5-4/10	Libya			Somaliland		
Queensland			El Salvador	÷6	÷6	a) West (Tripo-			(French)	+3	+3
Tasmania,			Ethiopia	+3	+3	politania)	+1	+2	Spain	+1	+1
(Brisbane,			Fiji Islands	+12	+12	b) East (Cyre-			Sudan (Anglo-		
Melbourne,			Finland	+2	+2	naica)	+2	+2	Egyptian)	+2	+2
Sydney)	+10	+10	France	+1	+1	Luxembourg	+1	+1	Surinam	÷3,40	÷3,40
b) North Terri-			French Equa-			Macau	+8	+9	Sweden	+1	+1
tory.			atorial Africa					1/5-1/10	Switzerland	+1	+1
S. Australia	+9½	+9½	(Brazzaville)	+1	+1	Madagascar	+3	+3	Syria	+2	+2
c) W. Australia			French West			Madeira	÷1	GMT	Taiwan	+8	+9
(Perth)	+8	+8	Africa (Senegal)	GMT	GMT	Malaya	+7½	+7½			1/2-31/10
Austria	+1	+1	Germany	+1	+1	Malta	+1	+1	Tanganyika	+3	+3
Azores	÷2	÷1	Gibraltar	+1	+1	Martinique	÷4	÷4	Tangier	GMT	+1
Barbados (W. I.)	÷4	÷4	Gold Coast	GMT	+½	Mauritius	+4	+4			1/5-1/10
Balearic Islands	+1	+1			1/5-31/10	Mexico	÷6	÷5½-1/10	Tahiti	÷10	÷10
Belgian Congo			Great Britain	GMT	+1	Miquelon	÷4	÷3	Tasmania	+10	+10
(West)	+1	+1			1/4-1/10			1/5-15/10	Thailand	+7	+7
Belgian Congo			Greece	+2	+2	Monaco	+1	+1	Transjordan	+2	+2
(East)	+2	+2	Greenland	÷3	÷3	Morocco			Trieste	+1	+1
Belgium	+1	+1	Goa (Port India)	+5½	+5½	(French)	GMT	GMT	Trinidad (W.I.)	÷4	÷4
Bermuda	÷4	÷3½	Guadeloupe			Morocco			Tunisia	+1	+1
Bolivia	÷4	÷4	(W.I.)	÷4	÷4	(Spanish)	+1	+1	Turkey	+2	+2
Borneo, North	+8	+8	Guam	+10	+10	Mozambique	+2	+2	Union of South		
Brazil			Guatemala	÷6	÷6	Nepal	+5.40	+5.40	Africa	+2	+2
a) Eastern and			Guiana (British)	÷3¾	÷3¾	New Caledonia	+11	+11	Uruguay	÷3	÷3
Coastal.	÷3	÷2	Guiana (Dutch)	÷3½	÷3½	New Guinea			U.S.S.R.		
b) Western			Guiana (French)	÷4	÷4	(Dutch)	+9½	+9½	Moscow,		
(Manaos)	÷4	÷3	Guinea (Port.)	GMT	GMT	New Guinea			Leningrad	+3	+3
Bulgaria	+2	+2	Guinea			(British)	+10	+10	U. S. A.		
Burma	+6½	+6½	(Spanish)	+½	+½	New Zealand	+12	+12	a) Eastern		
Cameroons	+1	+1	Haiti (W.I.)	÷5	÷5	Nicaragua	÷6	÷6	Zone	÷5	÷4
Canada			Hawaiian Islands	÷10	÷10	Nigeria	+1	+1			1/5-1/10
a) Atlantic			Holland	+1	+1	Norway	+1	+1	b) Central		
(Nova Scotia			Honduras (Rep.)	÷6	÷5.30	Pakistan			Zone	÷6	÷5
Quebec)	÷4	÷3	Honduras		1/10-31/10	a) West	+4½	+4½			1/5-1/10
b) Eastern			(British)	÷6	÷5.30	b) East	+6	+6	c) Mountain		
(Ontario)	÷5	÷4			10/10-3/2	Panama	÷5	÷5	Zone	÷7	÷6
c) Central			Hong Kong	+8	+9	Paraguay	÷4	÷4			1/5-1/10
(Manitoba)	÷6	÷5			1/4-31/10	Peru	÷5	÷5	d) Pacific		
d) Mountain			Hungary	+1	+1	Philippine			Zone	÷8	÷7
(Alberta)	÷7	÷6	Iceland	÷1	GMT	Islands	+8	+8			1/5-1/10
e) Pacific (Br.					3/4-21/10	Poland	+1	+1	Vatican	+1	+1
Columbia)	÷8	÷7	India	+5½	+5½	Portugal	GMT	+1	Venezuela	÷4½	÷4½
f) New Foundland	÷3½	÷2½	Indonesia					1/4-1/10	Vietnam	+8	+8
Canary Islands	GMT	GMT	a) North Sumatra	+6½	+6½	Puerto Rico (W.I.)	÷4	÷4	Yemen	+3	+3
Cap Verde Isl.	÷2	÷2	b) South	+7	+7	Reunion	+4	+4	Yugoslavia	+1	+1
Ceylon	+5½	+5½	c) Java, Borneo	+7½	+7½	Rhodesia			Zanzibar	+3	+3
c) Java, Borneo	+7½	+7½	d) Celebes (E.Ind.)	+8	+8	(Northern and					
Chile	÷4	÷4	e) Molucca Islands	+8	+8	Southern)	+2	+2			
China	+8	+9	Iran (Persia)	+3½	+3½	Rumania	+2	+2			
		1/5-30/9									

A NEW WORLD WIDE REFERENCE BOOK: WORLD RADIO VALVE HANDBOOK

gives the radio engineer and the radio technician at a glance the correct answer to any practical question concerned with receiving and amplifying valves of any makes:

- Replacement or substitute valves wherever there are suitable types.
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You Can Put Your Confidence In -

GENERAL  ELECTRIC

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(para Inglaterra) de las 21,15 a las 21,45 horas por 32,01 mts.
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Seat and Administrative Office: 37, Quai Wilson, Geneva.
Technical Centre: 32, Avenue Albert Lancaster, Brussels.
Monitory Centre: Jurbise (Belgium).

Administrative Council (1953): President: M. Georges Conus (S.S.R., Switzerland). *Vice-Presidents:* M. L. Daumard (R.T.F., France) and M. S. Sernesi (R.A.I., Italy).

Administrators: MM. Jan Boon (I.N.R., Belgium), E. Ehnmark (Radiotjänst, Sweden), H. J. G. Grisewood (B.B.C., United Kingdom) and Mrs. O. Vojvodic (Radio Beograd, Yugoslavia).

Director of the Administrative Office – Secretary General: M. Léo Wallenborn. – *Director of the Technical Centre:* M. Henry Anglès d'Auriac.

Active Members: The broadcasting organisations of: Belgium, Denmark, Egypt, Finland, France, Germany (Bundesrepublik), Greece, Ireland, Italy, Lebanon, Luxembourg, Monaco, Morocco/Tunisia, Norway, Netherlands, Portugal, Sweden, Switzerland, Syria, Turkey, United Kingdom, Vatican City, Yugoslavia.

Associate Members: The broadcasting organisations of: Australia (A.B.C.), Austria (Rot-Weiss-Rot), Belgian Congo, Burma, Canada (C.B.C.), Ceylon, Japan, New Zealand, Pakistan, Union of South Africa, United States (International Broadcasting Division, U.S. Department of State and N.B.C.).

Publications: Documentation and Information Bulletin (every two months in English and French). – Long and medium waves. Quarterly Report (European Area). – Short waves.

INTERNATIONAL BROADCASTING ORGANIZATION OIR ORGANISATION INTERNATIONALE DE RADIODIFFUSION OIR

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Nature: International Organization, having scientific purpose.

Governing body: General Assembly consisting of one representative for each full member.

Administrative Council: Consisting of 7 to 13 members.

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Members: R. Gadowski, P. Kito, M. Nikolov, I. I. Pozdnyak, P. M. Uusman.

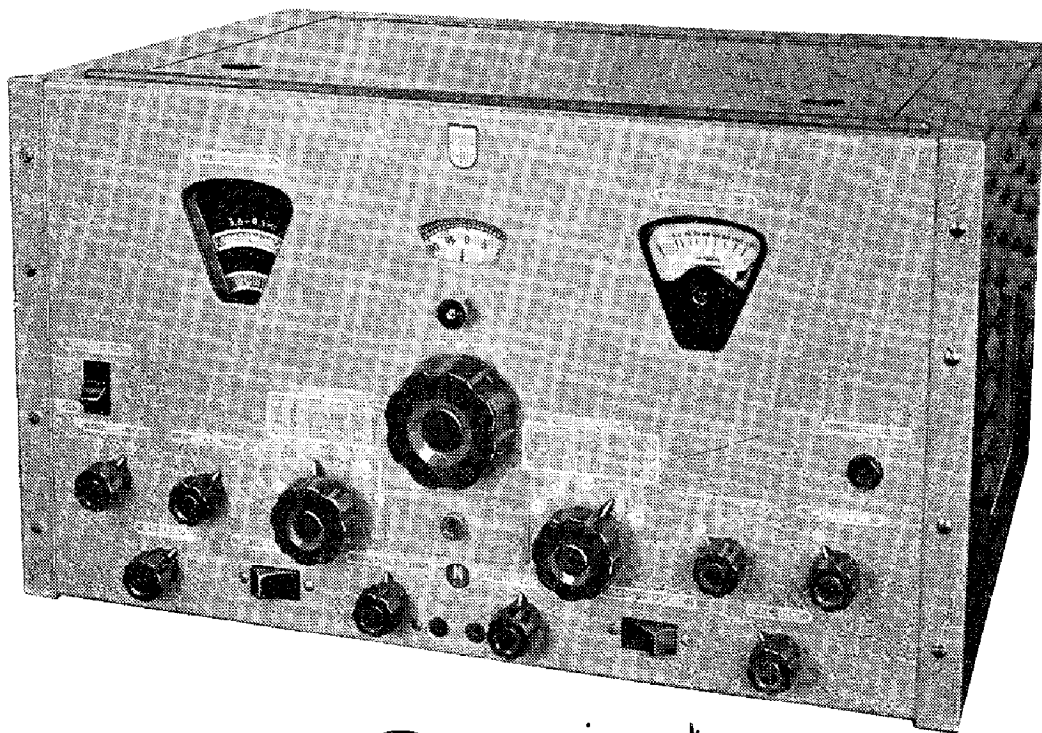
Members: People's Republic of Albania, Byelorussian SSR, People's Republic of Bulgaria, Chinese People's Republic, Czechoslovak Republic, Estonian SSR, Finland, German Democratic Republic, Hungarian People's Republic, Karelo-Finnish SSR, Latvian SSR, Lithuanian SSR, Moldavian SSR, People's Republic of Mongolia, People's Republic of Poland, Roumanian People's Republic, Ukrainian SSR, Union of Soviet Socialist Republics.

Facilities: Technical Checking Centre: Prague, Czechoslovakia.

Meetings: General Assembly at least once a year, Administrative Council at least twice a year.

Publications: Documentation and Information Bulletin in Chinese, English, French and Russian issued every three months. – Monthly Documentation Review.

Relations with other international organizations: Official relations with the ITU and its advisory committees.



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The Philips BX 925 A communications receiver combines all the characteristics and refinements of modern high-grade communications receivers with advanced features, making this type outstanding in its class. Its sensitivity, selectivity and reliability are up to the highest standards set by professional radio engineers and discriminating hams.



- A continuous frequency coverage of 210-540 Kc/s and 1.45-32 Mc/s in 6 ranges.
- A unique tuning device, motorized tuning, enables any desired frequency to be selected in an amazingly short time.
- Superior sensitivity, selectivity and stability.
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DAILY**

TABLE OF THE MOST SUITABLE METRE BANDS FOR BEST SHORT-WAVE RECEPTION IN EVERY PART OF THE WORLD AT VARIOUS TIMES OF THE DAY THROUGHOUT THE YEAR 1954.

Example: A listener located in North America wishes to hear a station in Southern Asia on a January afternoon. By following the horizontal column of figures starting at North America A on the left until it meets the vertical column under South Asia in the Winter section on the right, he will come to the figure 41. — This means that the 41 metre band is the most suitable for listening to the required station at that time.

The listener's area		Area of the station required																							
		May June July August							March April Sept. October							Nov. Dec. Jan. Feb.									
		Eu	NA	SA	Af	SAs	EAs	Au	Eu	NA	SA	Af	SAs	EAs	Au	Eu	NA	SA	Af	SAs	EAs	Au			
Europe	M	41	31	49	19	19	19	31	49	31	31	16	16	25	19	49	49	31	13	16	16	16			
	A	41	25	19	16	19	25	41	49	25	16	16	16	25	25	49	16	13	13	25	41	25			
	E	41	25	16	19	25	25	41	49	19	25	41	31	31	31	49	49	31	31	41	41	41			
North America	M	25	49	19	19	25	31	41	25	49	19	19	25	31	25	16	49	16	16	31	49	41			
	A	25	49	16	31	25	25	31	19	49	16	31	31	25	41	49	49	16	19	41	41	16			
	E	31	49	19	31	25	19	16	41	49	31	41	31	25	41	49	49	31	41	49	25	19			
South America	M	19	25	25	16	16	19	49	16	19	16	16	13	25	49	13	25	31	16	13	19	25			
	A	16	19	19	19	11	25	49	19	16	16	25	16	31	49	25	16	25	16	25	41	19			
	E	31	16	31	41	49	25	49	41	25	25	31	41	16	41	31	25	31	19	41	25	16			
Africa	M	19	31	49	31	16	16	16	16	49	31	31	16	13	19	13	49	25	25	16	16	19			
	A	16	19	16	25	16	16	25	16	19	16	19	13	25	31	13	49	16	25	19	31	25			
	E	16	31	25	31	25	25	31	41	31	25	31	25	31	49	31	19	16	49	31	41	41			
South Asia	M	19	19	49	16	41	16	16	25	31	31	16	25	16	16	31	49	25	16	25	13	16			
	A	25	25	31	16	41	13	25	16	31	16	13	19	16	25	16	49	16	16	19	16	16			
	E	25	25	16	25	49	25	25	25	25	16	19	41	31	31	41	49	16	35	41	31	25			
East Asia	M	25	19	25	31	19	16	16	49	19	16	41	19	31	16	41	16	25	41	25	41	13			
	A	19	19	31	16	13	16	16	25	31	19	16	16	25	16	19	49	25	16	13	31	25			
	E	25	31	19	16	16	19	25	25	31	25	19	25	49	25	31	49	19	25	19	49	41			
Australia	M	25	16	49	41	25	16	16	31	25	31	49	16	16	31	41	16	16	25	19	13	31			
	A	31	31	49	19	16	16	16	16	49	31	19	16	16	41	16	49	31	19	16	25	31			
	E	41	49	49	19	31	25	31	25	25	49	25	25	25	49	16	49	25	19	16	41	31			
METRE BANDS																									

METRE BANDS

M=Morning. A=Afternoon. E=Evening.

Eu=Europe. NA=North America. SA=South America. Af=Africa. SAs=South Asia. EAs=East Asia. Au=Australia.



V.H.F. ★ U.H.F.

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STORNO

Division of The Great Northern Telegraph Co. Ltd.

VED AMAGERBANEN 21 - COPENHAGEN S - DENMARK



BROADCASTING RECEIVERS IN THE WORLD

Number of licenses issued or receivers estimated in use.

Prepared on basis of information from the different countries and from Unesco's new publication: »Television - a world survey« -.

Abbreviations: L=number of licenses issued. R=estimated number of receivers in use.

AFRICA

Algeria	L 1953	250.000	Mozambique	L 1953	10.951
Angola	R 1953	19.000	Nigeria	L 1952)	17.933
Belgian Congo	L 1953	12.000	N. Rhodesia	R 1950	12.000
Cap Verde	L 1951	553	Reunion	R 1953	4.000
Egypt	L 1951	234.130	Somaliland	R 1951	2.000
Ethiopia	R 1951	8.400	S. Rhodesia	L 1953	50.000
F.E. Africa	L 1951	1.850	Sudan	R 1951	6.000
Fr. W. Afr.	L 1950	4.810	Tanganyika	L 1953	3.000
Gold Coast	L 19631)	19.854	Tangier	R 1951	15.000
Kenya	L 1953	16.000	Tunisia	L 1953	85.197
Liberia	R 1951	2.500	S. Africa	L 1953	620.000
Madagasc.	L 1953	15.034	Zanzibar	R 1951	600
Mauritius	L 1953	15.034			
Morocco	L 1953	220.805			

1) Incl. 15.132 redistribution licenses. 2) Incl. 16.234 redistribution licenses. 3) Incl. 2.040 redistribution licenses.

AMERICA, NORTH and CENTRAL

Bahamas	L 1951	4.053	Guatemala	L 1951	30.782
Barbados	L 1952)	9.425	Haiti	L 1950	3.683
Bermuda	R 1953	15.600	Honduras	L 1949	25.000
Br. Honduras	L 1952	1.347	Jamaica	L 1952	12.500
Canada	L 19532)	2.313.940	Martinique	L 1951	3.247
Costa Rica	R 1950	23.000	Mexico	R 1951	1.220.000
Cuba	R 1953	900.000	Netherlands		
Dom. Rep.	R 1950	35.000	Antilles	R 1951	15.000
El Salvador	R 1950	21.450	Nicaragua	R 1951	16.000
Guadeloupe	L 1951	1.166	Panama and Canal Zone	R 1953	125.000
Trinidad	L 19533)	30.000	Prt. Rico	R 1951	150.000
			U.S.A.	R 19524)	110.000.000

1) Includes 5.905 radio redistribution licenses.

2) The license system was discontinued in 1953.

3) Includes 10.500 radio redistribution licenses.

4) Of these, about 25 millions are in automobiles.

AMERICA, SOUTH

Argentina	R 1953	12.000.000	Ecuador	R 1950	50.000
Bolivia	R 1950	150.000	Falkland	L 1952	629
Brazil	R 1953	4.000.000	Paraguay	R 1951	35.000
Guinea, Br.	L 1953	35.000	Peru	R 1950	500.000
Chile	R 1949	550.000	Surinam	R 1951	8.000
Colombia	R 1950	500.000	Uruguay	R 1951	362.000
			Venezuela	R 1952	200.000

ASIA

Afghanist.	R 1953	10.000	Lebanon	L 1953	42.390
Burma	L 1953	13.130	Macau	L 1952	6.107
Cambodia	R 1951	3.500	N. Borneo	L 1952	2.060
Ceylon	L 1953	60.000	Ryukyu	R 1952	18.000
Cyprus	L 1952	14.000	Pakistan	L 1953	800.000
HongKong	L 1953	41.737	Philippin.	R 1953	150.000
India	L 1952	667.130	Sarawak	L 1952	1.334
Indonesia	L 1953	350.000	S. Arabia	R 1950	10.000
Iraq	L 1951	42.150	Singapore	L 1951)	54.619
Israel	L 1953	212.028	Syria	L 1950	45.000
Japan	L 1953	11.214.075	Thailand	R 1953	100.000
Jordan	L 1951	7.001	Turkey	L 1951	412.270
Laos	L 1951	328	Viet-Nam	L 1953	40.000

1) Includes 23.931 radio redistribution licenses.

EUROPE

Albania	L 1948	40.025	Fed. Rep.	L 1952	10.873.280
Austria	L 1953	1.595.557	Gt. Britain	L 1953	10.517.576
Belgium	L 1953	1.750.000	Greece	L 1953	290.000
Bulgaria	L 1952	225.000	Greenland	L 1953	23.000
Czechosl.	L 1951	2.544.606	Hungary	L 1952	886.717
Denmark	L 1953	1.298.529	Iceland	L 1952	36.374
Finland	L 1953	890.000	Ireland	L 1953	394.763
France	L 1952	7.926.152	Italy	L 1953	4.500.000
Germany:			Luxemb.	L 1953	70.940
Dem. Rep.	R 19511)	3.400.000	Malta	L 1952	41.103
Netherl.	L 1953	2.216.000	Monaco	R 1950	3.000
Norway	L 1953	870.000	Spain	L 1948	604.746
Poland	L 1951	1.747.148	Sweden	L 1953	2.287.616
Portugal	L 1952	354.217	Switzerland	L 1952	1.135.223
Romania	L 1950	270.000	Trieste	L 1953	60.779
Saar	L 1953	212.025	U.S.S.R.	R 19501)	13.000.000
			Yugoslavia	L 1953	383.296

1) License system is in force but no data available.

PACIFIC

Australia	L 1953	1.988.009	New Caledonia	L 1951	2.700
Fiji	L 1952	3.273	New Zeal.	L 1953	492.000
Hawaii US	R 1951	140.000	W. Samoa	L 1949	598

Listen to

the Voice of the Andes

International Missionary Station
HCJB located at Quito, Ecuador
South America.

For full details see page 112.

Rundfunk-Fernseh-Jahrbuch 1954

The German Edition of World Radio Handbook

contains official articles and detailed informations of leading experts about German broadcasting and television also the German version of World Radio Handbook for Listeners.

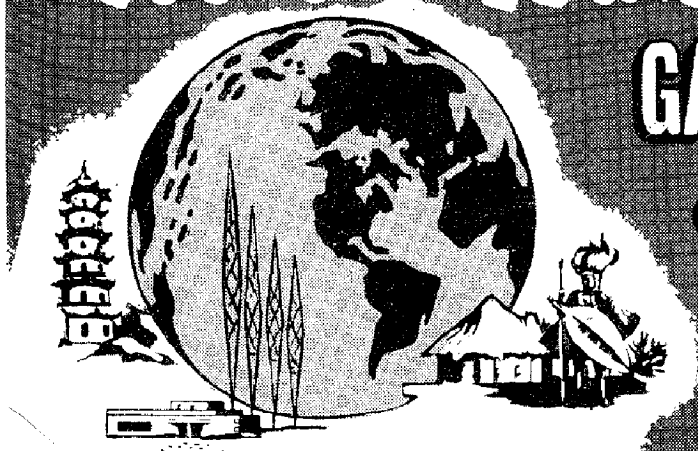
Price DM 8.40, D-Kr. 12.50, £ 12/6d, \$ 1.75.

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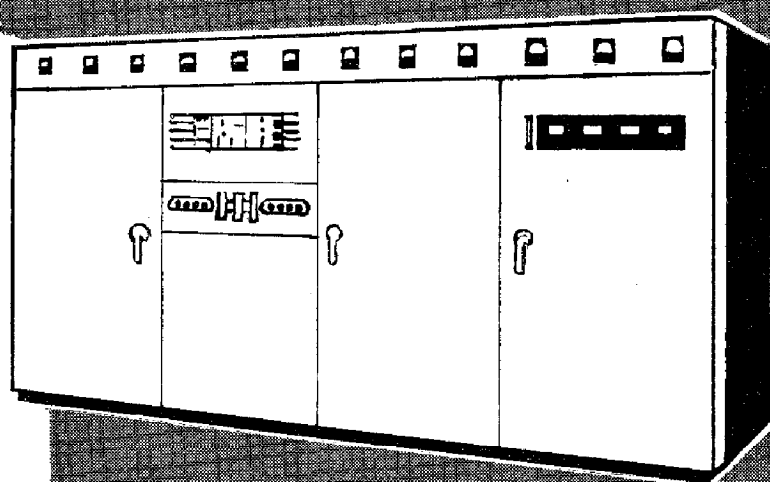
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Cables: ARLAB

Frequency bands allocated to Broadcasting, Television and Amateurs.

The table below is based upon the Atlantic City Radio Regulations. For bands between 3 and 27.5 mc/s the present situation differs a little from the table in some cases. Some bands are shared with other services.

Region 1: Europe, U.S.S.R. in Asia, Africa. *Region 2:* N. and S. America, Northeast. Pacific. *Region 3:* Asia exc. U.S.S.R., Australia, part of Pacific.

BC: Broadcasting (AM sound) - BC(trop): Broadcasting (AM sound, tropical zones) - BC(FM): Broadcasting (FM sound) - BC(TV): Broadcasting (Television) - AMAT: Amateurs.

	Region 1 kc/s	Region 2 kc/s	Region 3 kc/s
BC	150-285		
BC	525-1605	535-1605	535-1605
AMAT		1800-2000	1800-2000
BC(trop)	2300-2498	2300-2498	2300-2498
BC(trop)	3200-3400	3200-3400	3200-3400
AMAT	3500-3800	3500-4000	3500-3900
BC			3900-4000
BC(trop)	4750-5060	4750-5060	4750-5060
BC	5950-6200	5950-6200	5950-6200
AMAT	7000-7150	7000-7300	7000-7150
BC	7100-7300		7100-7300

	Region 1 kc/s	Region 2 kc/s	Region 3 kc/s
BC	9500-9775	9500-9775	9500-9775
BC	11700-11975	11700-11975	11700-11975
AMAT	14000-14350	14000-14350	14000-14350
BC	15100-15450	15100-15450	15100-15450
BC	17700-17900	17700-17900	17700-17900
AMAT	21000-21450	21000-21450	21000-21450
BC	21450-21750	21450-21750	21450-21750
BC	25600-26100	25600-26100	25600-26100
AMAT	28000-29700	28000-29700	28000-29700
	mc/s	mc/s	mc/s
BC(TV)	41-68	44-50	44-50
AMAT		50-54	50-54
BC(TV)		54-72	54-68
BC(TV)		76-88	
BC(FM)	87.5-100	88-108	87-108
AMAT	144-146	144-148	144-148
BC(TV)	174-216	174-216	170-200
AMAT		220-225	
AMAT	420-460	420-450	420-460
BC(TV)	470-585	470-940	470-585
BC(TV)	610-960		610-960
AMAT	1215-1300	1215-1300	1215-1300
AMAT	2300-2450	2300-2450	2300-2450
AMAT		3300-3500	3300-3900
AMAT	5650-5850	5650-5925	5650-5850
AMAT	10000-10500	10000-10500	10000-10500

Table of allocation of call signs

The first character or the first two characters of a call sign indicates the nationality of the station using it.

AAA-ALZ	U.S.A.	HHA-HHZ	Haiti	QAA-QZZ	(Service abbreviat.)	YOA-YYZ	Roumania
AMA-AOZ ¹⁾	Spain	HIA-HIZ	Dominican Rep.	RAA-RZZ	U.S.S.R.	YSA-YSZ	El Salvador
APA-ASZ	Pakistan	HJA-HKZ	Colombia	SAA-SMZ	Sweden	YTA-YUZ	Yugoslavia
ATA-AWZ	India	HLA-HMZ	Korea	SNA-SRZ	Poland	YVA-YYZ	Venezuela
AXA-AXZ	Australia	HNA-HNZ	Iraq	SSA-SUZ	Egypt	YZA-YZZ	Yugoslavia
AYA-AZZ	Argentina	HOA-HPZ	Panama	SVA-SZZ	Greece	ZAA-ZAZ	Albania
BAA-BZZ	China	HQA-HRZ	Honduras	TAA-TCZ	Turkey	ZBA-ZJZ	British Colonies
CAA-CEZ	Chile	HSA HSZ	Thailand	TDA-TDZ	Guatemala	ZKA-ZMZ	New Zealand
CFA-CKZ	Canada	HTA-HTZ	Nicaragua	TEA-TEZ	Costa Rica	ZNA-ZOZ	British Colonies
CLA-CMZ	Cuba	HUA-HUZ	El Salvador	TFA-TFZ	Iceland	ZPA-ZPZ	Paraguay
CNA-CNZ	Morocco (French)	HVA-HVZ	Vatican City State	TGA-TGZ	Guatemala	ZQA-ZQZ	British Colonies
COA-COZ	Cuba	HWA-HYZ	France and Colonies	THA-THZ	France and Colonies	ZRA-ZUZ	Union of S. Africa
CPA-CPZ	Bolivia	HZA-HZZ	Saudi Arabia	TIA-TIZ	Costa Rica	ZVA-ZZZ	Brazil
CQA-CRZ	Portuguese Colonies	IAA-IZZ	Italy and Colonies	TJA-TJZ	France and Colonies	2AA-2ZZ	United Kingdom
CSA-CUZ	Portugal	JAA-JSZ	Japan	UAA-UQZ	U.S.S.R.	3AA-3AZ	Monaco
CVA-CXZ	Uruguay	JTA-JVZ	Mongolian People's R.	URA-UTZ	Ukrainian U.S.S.R.	3BA-3FZ	Canada
CYA-CZZ	Canada	JWA-JXZ	Norway	UUA-UZZ	U.S.S.R.	3GA-3GZ	Chile
DAA-DMZ	Germany	JYA-JYZ ¹⁾	Jordan	VAA-VGZ	Canada	3HA-3UZ	China
DNA-DQZ	Belgian Congo	JZA-JZZ ¹⁾	Netherl. New Guinea	VHA-VNZ	Australia	3VA-3VZ	France and Colonies
DRA-DTZ	U.S.S.R.	KAA-KZZ	U.S.A.	VOA-VOZ	Canada	3WA-3WZ ¹⁾	Vietnam
DUA-DZZ	Philippines	LAA-LNZ	Norway	VPA-VSZ	British Colonies	3XA-3XZ	(Not allocated)
EAA-EHZ	Spain	LOA-LWZ	Argentina	VTA-VWZ	India	3YA-3YZ	Norway
EIA-EJZ	Ireland	LXA-LXZ	Luxembourg	VXA-VYZ	Canada	3ZA-3ZZ	Poland
EKA-EKZ	U.S.S.R.	LYA-LYZ	Lithuania	VZA-VZZ	Australia	4AA-4CZ	Mexico
ELA-ELZ	Liberia	LZA-LZZ	Bulgaria	WAA-WZZ	U.S.A.	4DA-4IZ	Philippines
EMA-EQZ	U.S.S.R.	MAA-MZZ	United Kingdom	XAA-XIZ	Mexico	4JA-4LZ	U.S.S.R.
EPA-EQZ	Iran	NAA-NZZ	U.S.A.	XJA-XOZ	Canada	4MA-4MZ	Venezuela
ERA-ERZ	U.S.S.R.	OAA-OCZ	Peru	XPA-XPZ	Denmark	4NA-4OZ	Yugoslavia
ESA-ESZ	Estonia	ODA-ODZ	Lebanon	XQA-XRZ	Chile	4PA-4SZ	British Colonies
ETA-ETZ	Ethiopia	OEA-OEZ	Austria	XSA-XSZ	China	4TA-4TZ	Peru
EUA-EZZ	U.S.S.R.	OFA-OJZ	Finland	XTA-XTZ	France and Colonies	4UA-4UZ	United Nations
FAA-FZZ	France and Colonies	OKA-OMZ	Czechoslovakia	XUA-XUZ ¹⁾	Cambodia	4VA-4VZ	Haiti
GAA-GZZ	United Kingdom	ONA-OTZ	Belgium and Colonies	XVA-XVZ ¹⁾	Vietnam	4WA-4WZ	Yemen
HAA-HAZ	Hungary	OUA-OZZ	Denmark	XWA-XWZ ¹⁾	Laos	4XA-4XZ ¹⁾	Israel
HBA-HBZ	Switzerland	PAA-PIZ	Netherlands	XXA-XXZ	Portuguese Colonies	4YA-4YZ ¹⁾	Intern. Civil Aviation Org.
HCA-HDZ	Ecuador	PJA-PJZ	Netherlands Antilles	XYA-XYZ	Burma	5AA-5AZ ¹⁾	Libya
HEA-HEZ	Switzerland	PKA-POZ	Indonesia	YAA-YAZ	Afghanistan	5CA-5CZ ¹⁾	Morocco (French)
HFA-HFZ	Poland	PPA-PYZ	Brazil	YBA-YBZ	Iraq	9AA-9AZ ¹⁾	San-Marino
HGA-HGZ	Hungary	PZA-PZZ	Surinam	YJA-YJZ	New Hebrides	9NA-9NZ ¹⁾	Nepal
				YKA-YKZ	Syrian Republic	9SA-9SZ ¹⁾	Saar Territory
				YLA-YLZ	Latvia		
				YMA-YMZ	Turkey		
				YNA-YNZ	Nicaragua		

1) Provincially



Among the many Radio Receivers for Export which the NORA RADIO DIVISION of the HELIOWATT WERKE A/G, Berlin-Charlottenburg, Germany, has been manufacturing for a long time, two receivers have been particularly successful in the export market. The first is the small Superhet "Norette" W/GW 637, which is made in two types, one for AC only, the other for AC/DC power lines. The beautiful designed cabinet is kept small in order to save in packing and freight. The receiver combines sensitivity with excellent tone fidelity and is very easy to operate thanks to the special design of wave range switch and dial.

It can be furnished with the following wave ranges:

A with three short wave bands, B with two short wave band, and one medium wave band, and type C with one range each for short wave, medium or broadcast band, and a long wave band. It has 6 tubes and 6 tuned circuits and also incorporates a novel and very attractive tuning indicator with a very good response to weak signals. The AC/DC type is provided with the usual tuning eye.

The "Norette" receiver has an attractive plastic cabinet and is, of course, provided with an Alnico-magnet speaker, with a two-step treble control and a very effective A.V.C. (Automatic Volume Control). The wave range switching is done very convenient by push-buttons.

The AC type can be used on 90-100/125/150/220/240 volts, while the AC/DC type can be used on 220 volts only.

The "Norette" receiver's big brother is the famous Band-spread Superhet "Noravox" W 676 which has five band-spread short wave ranges and 2 medium or broadcast ranges. Due to the precision design of the short wave components and dials a tuning accuracy is obtained on these ranges, so important for an export receiver, which equals the tuning on the medium wave bands. The receiver has 6 tubes and 6 tuned circuits.

The AC receiver is furnished in a beautiful wooden cabinet, while the AC/DC type has an attractive plastic cabinet.

The "NORAVOX" is provided with a combined bass-treble control having 5 positions which, in connection with the special design of the full range speaker, is able to give the listener just the tone fidelity desired, even on short waves.

The wave ranges are as follows:

1:	10,9	-	12,25	metres
2:	13,65	-	18,75	-
3:	18,2	-	27,75	-
4:	27,3	-	60,60	-

5:	59,4	-	130,50	-
6:	127,5	-	280,50	-
7:	268,0	-	588,00	-

This receiver is admired by listeners in the Near, Middle, and Far East, and also used by many short wave amateurs as a laboratory receiver.

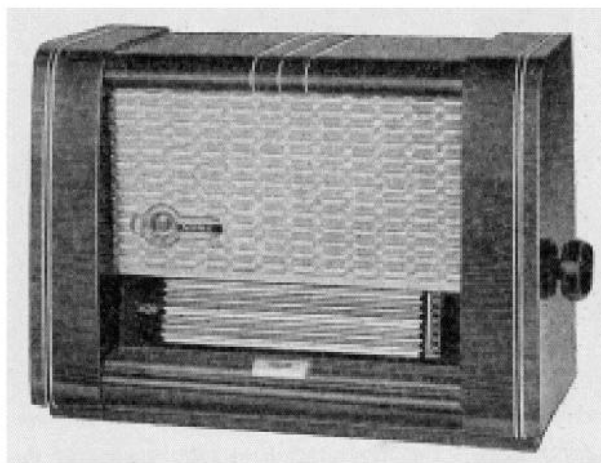
The AC type can be used on 110/125/150/220/240 volts power line, while the AC/DC type can be used on 110/220 volts only.

For further information, please contact

HELIOWATT WERKE

Dept. NORA-Radio

BERLIN-WEST - GERMANY





Radio Norway: Answering Radio Norway's letter box programmes (left to right) Knut Johansen — Andr. Birkeland — Tollef Berg (chief announcer) — Oddvar Foss.



Radio Monte Carlo: Transmitter situated at Fountbonne with a beatiful view over Monaco and the Riviera coast.



Deutsche Welle: Dr. Hans Otto Wesemann.



Radio Nederland: Reporter Guus Wertzel at work in the typical Dutch fishing village of Spakenburg.



Brussels Foreign Service: Le Roye, Head of Public Relations and Chief Editor of Dx-Programmes.



Radio Moscow: Announcers of the Radiocommitte of the USSR: Olga Vysotskaia and Youri Levitan before microphone. (From the Albanian Radioweekly "Radio Programé").



Mr. Wociech Trojanowski, former sports commentators for the Polish radio, holds a record in high and low hurdles, was seven times Polish champion, and twenty-two times member of the Polish natural teams. He is Senior Commentator of the Polish Desk.

Abbreviations: Corpo. = Corporation. R. = Radio. W. = Weekday. kW = Kilowatt. kc/s = kilocycle pr. sec. mc/s = megacycle pr. sec. V.O.A. = Voice of America. Wi. = Winter. S. = Summer. M.B.C. = Manila Broadcasting Company. MCBS = Mindanao Colleges Broadcasting System. m.v. = Medium Wave. s.w. = Short Wave. G.M.T. = Greenwich Mean Time. D. = Daily. F.M. = Frequency modulated. F.B.S. = Forces Broadc. Service. B.F.B.S. = British Forces Broadc. Service. Sun. = Sunday. Mo. = Monday. Tues. = Tuesday. Wed. = Wednesday. Thurs. = Thursday. Sat. = Saturday. D. = Daily. Dir. = Director. Govt. = Government. N. = National. R. = Regional.

EUROPE

ALBANIA (Government)

Address: Direction Centrale de la Radiodiffusion d'Albanie, rue Conference de Peza 3, Tirana.

Stations:

	kc/s	m	kW		kc/s	m	kW
Tirana	1358	220.9	50	Korça	8100	37.00	0.1
Tirana	6570	45.66	0.5	Shkodra	8215	36.52	0.2
Tirana	7850	38.20	3	Vlore	8570	35.00	0.1

HOME SERVICE:

Albanian: on 1358 kc/s: W: 05.45–07.30. 12.00–14.00. 16.30–21.00. Sun. 06.30–10.00. 11.30–14.00. 15.00–21.00. On 8100 kc/s: W: 06.00–07.00. 12.00–14.00. 16.45–21.00. Sun. 05.30–07.30. 11.30–14.00. 16.45–21.00. On 8215 kc/s: 05.00–06.00. 12.00–13.30 (Sun. 11.00–13.00). 16.30–21.00. On 8570 kc/s: 05.00–06.00. 18.00–21.00. *News:* 05.15. 06.00 (Sun.). 12.30. 13.00 (Sun.). 17.00. 19.00. 21.00.

FOREIGN SERVICE:

On 6570, 7850 kc/s: 04.30–06.00. 17.00–22.00. *French* 17.30. 21.30. *Albanien* 18.00. *Serbo Croat* 18.30. *English* 18.40. 21.00. *Italian* 20.00. *Rumanian* 20.30. On 1358 kc/s: 22.00–23.30. *English:* 22.45–23.00. *French:* 22.30–22.45. *Greek:* 22.00–22.15. *Italian:* 22.15–22.30. *Serbo-Croatian:* 23.00–23.30. **Announcement:** *English:* "This is Radio Tirana, Albania on 38.2 and 45.6 m". **Interval-Signal:** 7 musical notes played on piano.

RADIO ANDORRA (commercial)

Address: Radio Andorra, Roc de les Anelles, Andorra la Vieja (Principado d'Andorre). **Cable:** Radio Andorra. **Leading Personalities:** Directeur General: Roger Deleris. Chef Ingenieur: Lucien Killmayer. Secretariat General: Melle. Julia Canut. Metteurs en Ondes: Paul Servant and Yves Lageon. Programmes: Amadeo Rossell. Service des Auditeurs: Melle. Candida Canut. Chef technique de la Station: Paul Cousse.

Stations: Radio Andorra.

866 kc/s 346 m 60 kW – 5980 kc/s 50.16 m 25 kW.

Daily Programmes in French and Spanish: 10.00–14.00. 17.30–24.00.

Announcement: *French:* "Ici Radio Andorre". *Spanish:* "Aquí, Radio Andorra – Roc de les Anelles – Andorra la Vieja – Principado de Andorra".

Interval-Signal: Gong low. *Open and close with:* "Hymne National Andorran" and "Marche des Conseillers Andorrans".

AUSTRIA

ÖFFENTLICHE VERWALTUNG FÜR DAS ÖSTERREICHISCHE RUNDSPRUCHWESEN

Address: Wien XII, Singrienergasse 21. **Cable:** "Rundfunk".

Leading Personalities: Die öffentlichen Verwalter: Dir. Dr. Siegmund Guggenberger. Dir. Dipl. Ing.: Vilhelm Fuchs.

HOME SERVICE (FM):

	mc/s	kW		mc/s	kW
Wien	99.9	10	Linz	99.3	1§)
Klagenfurt	93.0	1	Bregrenz	89.7	1†)
Graz	91.2	1*)	Innsbruck	88.5	1†)
Salzburg	94.8	1§)			

*) under construction. §) same progr. †) projected.

Daily Programmes: D.: 17.00–21.00. Repeat of Programmes the following day: Wien: 10.00–12.00. 13.00–15.00. Klagenfurt, Salzburg: 13.00–17.00. Salzburg, Linz: 12.00–14.00. 14.00–16.00.

Announcement: "Hier ist Radio Österreich. Sie hören den Sender.....auf.....Megahertz".

Interval-Signal: The first two bars of Joseph Haydn's Andante with the kettle-drums.



THE BLUE DANUBE NETWORK (American Zone)

Address: APO 541, US Army.

Leading Personalities: Officer in Charge: Major Graf A. Boepple. Technical Supervisor: Mr. C. E. Meyers.

HOME SERVICE (in English): 05.00–23.05.

	kc/s	m	kW		kc/s	m	kW
Salzburg	674	445	5	Tulln	1223	245	0.1
ZellamSee	890	337	1	St. Johann	1367	220	0.25
Linz	881	341	1	Salzburg	5080	59.1	0.35
Wien	1034	290	5	Salzburg	9617	31.2	0.35

News: 05.00. 06.00. 09.00. 11.30. 13.00. 16.00. 17.15. 19.00. 20.00. 21.30. 23.00.

Announcement: "This is the Blue Danube Network".

Verification by QSL-card. Return postage requested.

SENDERGRUPPE ROT-WEISS-ROT (Am. Zone)

Addresses: Wien VII, Seidengasse 13. – Salzburg, Hofstallgasse 5. – Linz, Obere Donaulände 1.

Leading Personalities: Gen. Intendant: Prof. A. Reischek. Network Dir.: J. R. Sills. Chief Eng.: Dr. R. Stamminger. Dir. of Administration: F. Haeuseler. News Dir.: Prof. V. L. Ostry.

HOME SERVICE: D.: 04.30(Sun. 05.30)–23.10(Sun. 23.05).

	755 kc/s	397.4 m	100 kW
Wien	773	–	100
Linz	–	388.0	–
Salzburg	1250	240.0	10
Zell am See	1250	240.0	0.05
Hofgastein	1250	240.0	0.05
Bischofshofen	1255	239.0	0.05
Bad Ischl	1394	215.0	0.05
Windischgarsten	1394	215.2	0.35
Radstadt	1394	215.2	0.05
Mittersill	1493	201.0	0.05
Saalfelden	1493	201.0	0.05
Schwarzach	1493	201.0	0.05
St. Michael	1493	201.0	0.05

Main News Broadcasts: 05.00(W.), 06.00(W.), 11.30. 13.00 (W.). 14.00(W.). 15.00(W.). 19.00. 21.00. 22.00(W.). 23.00.

RWR-Concert of the Vienna Philharmonic Orchestra: Sat. 14.15. *America calling Austria:* W.: 18.45. *BBC Progr. for Austria:* Mo.-Fri. 17.30.

Announcement: "Hier ist die Sendergruppe Rot-Weiss-Rot, Wien, Salzburg und Linz".

Interval-Signal: The first four bars of the "Blue Danube" by Johann Strauss.



Verification by QSL-card.

Austria

SENDERGRUPPE ALPENLAND (British Zone)

SENDER GRAZ (Government).

Address: R. Graz, Funkhaus, Zuserthalgasse 14a, Graz.
 Leading Personalities: Dir.: Ing. Dietrich Cordes. Chief Eng.: Ing. W. Walzel. Dir. of Music: E. L. Uray. Chief Editor: A. Kremsner.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Graz II	520	578	0.2	Graz-Dobl	1025	292	100
Schönbrunn	566	530	0.25	Liezen	1061	282	0.05
Eisenerz	615	487	0.1	Knittelfeld	1088	275	0.05
Murau	615	487	0.1	Kindberg	1088	275	0.05
Bad Ausee	616	487	0.1	Mürzzuschlag	1124	266	0.1
Graz I	665	451	15	Judenburg	1151	260	0.1
Admont	692	434	0.015	Leoben	1313	228	0.1
Bruck-Mur	696	430	0.1	Mariazell	1313	228	0.05

DAILY PROGRAMMES: 1st Programme: Graz I:

04.30 (Sun. 05.30)–23.00. Dobl: 09.15–13.00 (Sat. 14.30), Sun. 07.00–16.00. Schönbrunn: Mo. to Fri.: 04.30–07.15, 10.45–13.00, 15.00–23.00. Sat.: 04.30–07.15, 10.45–23.00. Sun.: 05.30–23.00.

News: 05.00(W.), 06.00, 07.00, 08.00, 11.30, 16.00, 18.45, 20.45, 22.55. "Die Stimme Amerikas" 21.45.

2nd Programme: Graz II, Klagenfurt II, Schönbrunn have the same programme as Radio Wien II: W.: 13.00–22.00. Sun.: 06.00–23.00.

News: 16.00, 18.45, 21.00.

Interval-Signal: "Mit dem feingeschnittenen Wanderstabe" (Hugo Wolff).



Verification by letter.

RADIO KLAGENFURT (commercial)

Address: Funkhaus Kärnten, Klagenfurt.

Leading Personalities: Dir.: P. Garitschnig. Dir. of Progr.: K. Lackner. Chief Eng. Ing.: Lampersberger. Administrator: L. Seiser.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Hermagor	511	587	0.05	Kötschach	732	409	0.1
Radentheim	624	483	0.1	Gmünd	885	339	0.05
Greifenburg	629	477	0.05	Völkermarkt	1070	280	0.05
Villach	692	434	0.1	Friesach	1088	275	0.05
Spittal/Drau	694	430	0.1	Wolfsberg	1088	275	0.05
Obervillach	714	420	0.05	Oberdrauburg	1088	275	0.04
Klagenfurt I	728	412	7	Klagenfurt II	1313	228	0.2

Daily Programmes: Klagenfurt I: as Graz I. Klagenfurt II: as Wien II (Sun.: 06.00–08.00 Klagenfurt II only).

FOREIGN SERVICE in Slovene:

Klagenfurt I only: Mo.–Fri. 13.30–14.00. Sun.: 06.15–06.45.

Interval-Signal: "Dort wo Tirol an Salzburg grenzt" ("Kärntner Heimatslied").



Verification by letter.

BRITISH FORCES NETWORK (British Zone).

Address: B.7 Forces Broadcasting Station (H.Q., F.B.S. Austria), British Troops in Austria, Opernring No. 6, Graz I.

Leading Personalities: Controller: Mr. R. H. Icke. Chief Programme Officer: V. Rees. Station Commanders: B7FBS–R. H. Icke. C12FBS–W. Toogood. C13FBS–Capt. H. G. Ferguson.

HOME SERVICE: English: W.: 05.30–07.30, 10.58–22.00(Sat. 23.00). Sun.: 06.00–22.00.

Graz B7FBS	565	kc/s	531	m	1	kW
Klagenfurt C12FBS	565	–	531	–	1	–
Wien C13FBS	868	–	345	–	0.25	–
Zeltweg C14FBS	868	–	345	–	0.25	–

BBC News: 06.00(W.), 07.00, 11.00, 13.00, 14.00(W.), 16.00(W.), 18.00, 20.00. – Mailbag: (Request programme from Forces Listeners): 17.00–18.00 (Tues., Thurs., Fri., Sat.).

Announcement: "This is the British Forces Network, Austria". Opening Melody: "Rule Britannia". Closing Melody: "The Queen". – Verification by letter.

LANDESENDER TIROL AND VORARLBERG

(French Z.) Commercial. Language: German, French.

LANDESENDER TIROL:

Address: Neues Landhaus, Innsbruck. Cable: R. Innsbruck.

Leading Personalities: Intendant R. R.: Dr. Josef Scheidle. Dir. of Progr.: Dr. A. v. Schuschnigg. Chief Eng. Ing.: R. v. Ottenthal. Kaufmann Dir.: Mr. Hans Frei.

HOME SERVICE in German: W.: 04.57–08.10, 09.15–13.10, 14.00–23.00. Sat. 04.57–08.10, 09.15–23.00. Sun. 05.55–23.00.

	kc/s	m	kW		kc/s	m	kW
Reutte	519	578	0.025	Lienz	719	417.2	0.1
Landeck	520	578	0.025	Kufstein	1002	299.4	0.025
Innsbruck II	520	578	0.2	Mayerhof	1038	289.1	0.025
Innsbruck I	629	477	15*	Imst	1124	267.0	0.05
Kitzbühel	629	477	0.05	Innsbr.s.w.	6000	50.0	0.5

News in German: 05.00 (W.), 06.00, 11.30, 19.00, 21.00. News in French (from Paris): 07.00, 12.45 (Mo.–Fri.), 13.00 (Sat., Sun.). *25 kW April 1954.

Announcement: "Hier ist der Landessender Tirol".

Interval-Signal: First movements of: "Mein schönes Innsbruck am grünen Inn". (Musical Box).



LANDESENDER VORARLBERG: Language: German, French.

Address: Neues Rathaus, Dornbirn. Cable: Landessender.

Leading Personality: Chief of Broadcasting and Programmes: C. E. Gasser.

Home Service in German (as Radio Tirol):

Bludenz	566	kc/s	530.0	m	0.025	kW
Dornbirn	629	–	476.9	–	12	–
Schrüns	1457	–	206	–	0.05	–

News: As R. Tirol.

Announcement: "Hier ist der Landessender Vorarlberg".

Interval-Signal: "Uf da Berga ist mi Leaba".



RADIO WIEN (U.S.S.R. Zone). Language German.

Address: Radio Wien, Wien IV, Argentinierstrasse 30A (Funkhaus).

Leading Personalities: Director of Programmes: Prof. Dr. R. Henz. Commercial Director: Dr. R. Pristov.

HOME SERVICE:

Wien I: D.: 04.30 (Sun.: 05.00)–24.00.

584	kc/s	513.8	m	35	kW	11785	kc/s	25.46	m	0.2	kW
						6155	–	48.74	–	0.2	–

News: 04.50(W.), 05.45(W.), 06.00(W.), 07.00(W.), 11.45(W.), 12.00(Sun.), 16.00, 18.45, 21.20, 23.00. – "Echo des Tages": W.: 18.30 (Sat. 18.15). – "Nachtsendung für Ausland": D.: 00.05. – "Russian Hour": Sun., Thurs. 19.15. – "News from Soviet": 21.40.

Announcement: "Hier ist der Sender Wien I auf Welle 513.8 m mit den Kurzwellen in 25 und 48 m-Band".

Wien II: D.: 04.30 (Sun.: 05.00)-23.05.

	kc/s	m	kW		kc/s	m	kW
Zwettl	692	434.0	0.02	Gloggnitz	1457	206.0	0.05
Neunkirch.	1052	285.0	0.05	Amstetten	1457	206.0	0.05
Krems	1052	285.0	0.05	Wien II	1475	203.4	2
St. Pölten	1457	206.0	0.025	Wien II	7245	41.41	0.3
Wr. Neust.	1457	206.0	0.05	Wien II	9665	31.04	0.3

News: 04.50(W.), 05.45(Sun.), 06.00(W.), 07.00(W.), 11.30(Sun.), 11.45(W.), 16.00, 18.45, 21.00, 23.00.

Program-Exchange Paris-Wien 19.15, Mo. from 19.00 to Paris, Sun. 21.30 to Paris.

Announcement: "Hier ist das zweite Programm-Sender Wien II auf Welle 203.4 mit den Kurzwellen im 31- und 41-m-Band. Graz II auf Welle 578 m, Klagenfurt II auf Welle 228.5 m, Schönbrunn auf Welle 530 m".

Interval-Signal: Tick-Tack of an alarm clock.

Verification by letter.

BELGIUM

THE BELGIAN NATIONAL BROADCASTING SERVICE (Government)

Address: Institut National Belge de Radiodiffusion, Place Eugene Flagey 18, Brussels. **Cable:** I.N.R. Bruxelles.

Leading Personalities: The President of the Conseil de Gestion Minister of Communications: Paul Segers. **Flemish Dept.:** Dir. Gen.: Jan Boon, Deputy Dir. Gen.: Gust de Muynck. Dir. of Spoken Word: R. Brulez. For Press and Information: H. Engels. **French Dept.:** Dir. Gen.: Roger Clausse. Asst. Dir. Gen.: Fr. Hoosemans. Dir. of Music: G. Brenta. Dir. of Spoken Word: M. Hankard. For Press and Information: André Guery. **Technical Dept.:** Dir. Gen.: F. Mortiaux. Asst. Dir.: G. Hansen. **Foreign Relations:** M. Swaenepoel.

HOME SERVICE:

French Network. kc/s m kW
Brussels (National) 620 483.9 150 W. 05.30-09.00, 11.00-23.00. Sun. 05.30-23.00.
Brussels (Regional) 1124 266.9 10 W. 09.00-18.15, 19.00-23.00. Sun. 08.00-18.30, 19.00-23.00. Program in Germ. 16.20-16.50.

News: 06.00, 08.00, 12.00, 18.45, 21.00, 21.55.

Flemish Network. kc/s m kW
Brussels (National) 926 323.9 150 W. 05.30-09.00, 11.00-12.00. Sun. 05.30-23.00.
Brussels (Regional) 1511 198.5 20 D. 09.00 (Sun. 08.00)-23.00.

News: 06.00, 08.00, 12.00, 18.00, 21.00, 22.00.

Announcement: "Ici Radiodiffusion Nationale Belge". In **Flemish:** "Belgische Nationale Radio-Omroep".

Interval-Signals: **French Network National:** Extract from Gretty's famous melody "Ou peut-on être mieux".



Flemish Network National: The first movement of "Beiaardlied" (Extract from Rubens' cantata by Peter Benoit).



Verification by letter.

FOREIGN SERVICE:

(The International Goodwill Station):

Address: Overseas Service of the BNBS, P.O. Box 26, Brussels I. **Cable:** I.N.R. Mondial.

Leading Personalities: Dir.: Frans Zoete. Head of Dutch & Foreign Sections: J. van Overloop. Dir. of Public Relations: L. Le Royce.

Stations: ORU, Wavre: ORU3=100 kW; ORU4=100 kW; ORU5=20 kW; OTC, Leopoldville, Belg. Congo=50 kW.

Calll.	kc/s	m	Calll.	kc/s	m	Calll.	kc/s	m
ORU5	6000	50.00	ORU5	9705	30.91	ORU4	15335	19.56
ORU4	6000	50.00	ORU3	9745	30.78	ORU3	17860	16.80
ORU4	6085	49.30	ORU4	9767	30.71	ORU4	21510	13.94
ORU3	9144	32.80	ORU4	11850	25.32			
OTC	9655	31.07	ORU5	11850	25.32			

Daily Programmes:

Abbreviations: FE=Far East (Indonesia), AFI=Africa (Coquilhatville), AF2=Africa (Leopoldville), NA=North America (Albany-NY), SA=South America (Sao Paulo-Brazil), NE=Northern Europe (Stockholm), SE=Southern Europe (Madrid).

Times/Progr./Languages	Frequencies			Beamed to:
	1/11-28/2	1/3-30/4 1/9-31/10	1/5-31/8	
Belgium Calling the Far East (<i>English-Dutch</i>)	17860	17869	17860	FE
11.00-12.00	17860	17860	17860	AFI
For Belgian Congo (<i>French-Dutch</i>)	21510	15335	15335	AF2
12.00-13.00	17860	17860	17860	AFI
For Mission. or Seamen (<i>French-Dutch</i>)	21510	15335	15335	FE
17.00-17.45	11850	11850	11850	SE
For Seamen or Mission. (<i>Dutch-French</i>)	9745	9745	9745	AFI
17.45-18.00	15335	15335	15335	SA
Musical Interlude	11850	11850	11850	SE
18.00-21.00	9745	9745	9745	AFI
For Belg. Congo & Afr. (<i>French-Dutch</i>)	9767	11850	11850	AF2
For Northern Europe (<i>French-English-Swedish</i>)	6000	6000	6000	NE
21.00-21.15	9745	9745	9745	SA
Musical Interlude				
21.15-23.00	9745	9745	9745	SA
For Southern Europe & South America (<i>Portuguese-Spanish</i>)	6000	6000	11850	SE
23.15-24.00				
For Seamen (<i>French-Dutch</i>)				
00.00-00.30	6085	9767	9767	NA
For Belgians in the World (<i>Fr.-Dutch</i>)	9144	9144	9144	AF2
00.30-03.00	9705	9705	9705	AF1
Belgium Calling Canada and the USA (<i>French-English</i>)	9655	9655	9655	NA-SA

DX-Programmes Wedn. and Thurs.:

10.10 English	17860 F.E.	21.45 Portuguese	6000, 9745 S.A.
18.40 English	6000 N.E.	22.00 Spanish	6000, 9745 S.A.
19.00 French	6000 N.E.	02.00 English	6085, 9150, 9665, 9767 N.A.J.

1/5-31/8 9745, 11850 kc/s. Special broadcast 1st Thurs. of the month for the French Union.

All OM and SWLs are invited to contribute to these programmes and to send their reception reports to The International DX-Programme, P.O. Box 26, Brussels, Belgium.

Mo: Non-Stop-Programme: 18.00 in Dutch, French, and English. 18.15 Request-records for Belgians sick in Switzerland. 18.45 Request & Variety programme.

Announcements: **English:** "This is Brussels, Short-Wave Service of B.N.B.S.". **French:** "Ici Bruxelles, Service d'ondes courtes de la Radiodiffusion Nationale Belge".

Dutch: "Hier Brussels, de Kortegolfuitzendingen van de Belgische Nationale Omroep". **Portuguese:** "Aqui Bruxelas, Serviço de ondas curtas da Radiodifusão Nacional".

Belgium - Denmark

Belga". *Spanish*: "Aquí Bruselas, Servicio de ondas cortas de la Radiodifusión Nacional Belga".
Starting-Signal: Xylophone.



Interval-Signal: Chime. First bars of "Vers l'Avenir".



Verification by QSL-card.

BULGARIA (Government)

Address: Direction de la Radiodiffusion Sofia, Bulgaria.

HOME SERVICE:

Sofia II 593 kc/s 506 m 60 kW
 Sofia I 826.9 - 362 - 100 -
On 362 m. W.: 03.55-08.00, 09.55-14.00, 15.25-21.00.
Sun.: 04.25-08.30, 09.55-14.00, 14.55-21.00.
On 506 m. W.: 14.55-21.00. **Sun.**: 08.30-10.00, 14.00-21.00.

FOREIGN SERVICE:

	kc/s	m	kW		kc/s	m	kW
Sofia II	593	506	20	Sofia IV	6070	49.42	100
Stalin (Varna)	1124	267	5	Sofia III	7670	39.11	5
Stara Zagora	1223	245	20	Sofia IV	9700	30.93	100

EUROPEAN SERVICE: **Albanian**: 19.30-19.45 in 41, 39 m.b. **English**: 20.00-20.15, 21.15-21.44 in 41, 39 m.b. **French**: 20.45-21.15 in 41, 39 m.b. **German**: 20.15-20.45 in 41, 39 m.b. **Greek**: 04.15-04.30 in 39 m.b. and on 506 m, 18.30-19.00 in 49, 39 m.b. **Italian**: 18.00-18.30 in 49, 39 m.b. **Macedonian**: 05.00-05.30 in 39 m.b. and on 506 m, 16.30-16.45 in 49, 39 m.b. and on 506 m, 19.00-19.15 in 49, 39 m.b., 22.00-22.30 on 506 m. **Serbo-Croatian**: 04.30-05.00 in 39 m.b. and 506 m, 16.45-17.00 in 49, 39 m.b. and on 506 m, 19.15-19.30 in 49, 39 m.b., 22.30-23.00 on 506 m. **Slovenian**: 19.45-20.00 in 39, 49 m.b. **Turkish**: 04.00-04.15 in 39 m.b. and on 506, 267, 245 m, 08.30-08.50 (Sun.) on 267 m (for Bulgaria), 11.00-11.10 (Wed. and Fri.) on 245 m (for Bulgaria), 17.00-17.30 in 49, 39 m.b., 17.30-18.00 (exc. Sun.) in 49, 39 m.b. and on 267, 245 m (for Bulgaria).

Special transmission for Yugoslavia (Sun. only): **Serbo-Croatian**: 11.00-11.30. **Macedonian**: 11.30-12.00 in 39 m.b. and on 506 m.

NORTH AMERICAN SERVICE in English:

D.: 23.00-23.15 01.00-01.29; **W.**: 00.30-00.45 on 9700 kc/s.

Announcements: *Opening*: A Bulgarian march and "Govori Sofia, Govori Sofia". In *French*: "C'est Sofia qui parle". In *English*: "This is Radio Sofia Calling".

Verification by QSL-card or letter.

CZECHOSLOVAKIA

Address: Československý rozhlasový výbor, Praha XII, Stalinova 12. **Cable**: Rozhlas (Government).

HOME SERVICE:

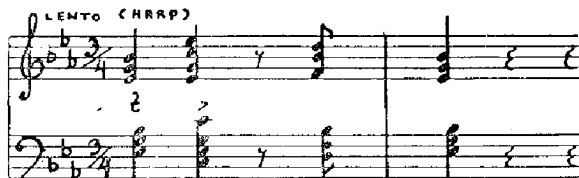
	kc/s	m	kW	
Czechoslovakia	272	1102.9	10	03.30-23.10
	1286	233	100	in Czech and
	1484	202	0.5	Slovak
Nat. Netw. Prague	638	470.2	120	03.30-23.10
Plzen, Brno Budějovice	953	314.0	15/100/5	in Czech
Ostrava	1520	197.4	20/5	
	1484	202.2	0.5	
Bratislava	1097	273.5	150	04.00-22.00
				in Slovak

Czechoslovakia: **News**: 04.00(W.), 05.00(W.), 06.00(W.), 06.45(Sun.), 11.05(Sun.), 11.30(W.), 15.00(W.), 18.00 (News Reel), 21.30, 23.00. **Night Concert** 21.50.

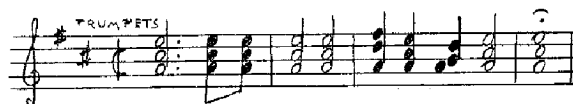
National Network: **News**: 04.00(W.), 05.00(W.), 06.00 (W.), 06.45(Sun.), 11.30, 18.00 (News Reel), 21.00, 23.00.

Interval-Signals:

Nat. Netw. Prague:



Czechoslovakia:



FOREIGN SERVICE:

	kc/s	m		kc/s	m
OLR2A	6010	49.92	OLR4A	11760	25.51
OLR	6095	49.22	OLR4A	11840	25.34
OLR2D	6170	48.62	OLL4C	11875	25.26
OLR3B	9504	31.57	OLR4B	15320	19.58
OLR3A	9550	31.41	OLR6A	17830	16.83

Czech and Slovak (U.S.A.): 01.00-01.30 9550 kc/s.

English: 12.15-12.45 11840 kc/s; 19.00-19.25 9504 kc/s; 22.00-22.30 1286 kc/s.

French: 19.00-19.30 1286 kc/s.

German: 23.00-23.15 1283 kc/s; 18.30-19.00 1283 kc/s; 20.00-20.30, 1283 kc/s.

German (Austria): 22.30-23.00 1232 kc/s.

Greek: 11.15-11.45 11840 kc/s; 16.30-17.00 9504 kc/s; 22.00-22.30 1232 kc/s.

Italian: 06.30-07.00 9504 kc/s; 22.30-23.00 6170 kc/s.

Macedonian: 10.45-11.15 11840 kc/s.

Russian: 09.00-09.30 11760 kc/s.

Spanish: 23.15-23.45 1097 kc/s; 06.00-06.30 9504 kc/s; 18.00-18.30 9504 kc/s; 21.00-21.30 6170 kc/s.

Swedish and Norwegian: 18.30-19.00 9504 kc/s; 20.00-20.30 6170 kc/s.

U.S.A. and Canada: 00.30-01.00 9550 kc/s; 04.00-04.30 9550 kc/s.

Yugoslav: 23.00-23.30 1232 kc/s; 04.45-05.15 6010 kc/s; 05.15-05.45 6010 kc/s; 05.45-05.55 6010 kc/s; 17.30-18.00 9504 kc/s; 22.45-23.15 1092 kc/s.

Announcement: "Prague calling.—This is the voice of peace from Czechoslovakia". **Interval-Signal**:



Verification by QSL-card or letter. Return postage not required.

DENMARK

Address: The Danish State Radio, Radiohuset, Rosenørnsalle 22, Copenhagen. **Cable**: Statsradio (Government).

Leading Personalities: **Dir.**: F. E. Jensen. **Chief of Administration**: J. Jannik. **Chief of Music Dept.**: K. A. Bruun. **Chief of Talks Dept.**: A. F. Pedersen. **Chief of Drama Dept.**: H. Rohde. **Chief of Outside Broadcasts**: A. Dahlerup. **Chief of Information Dept.**: P. Berg. **Chief of News Dept.**: N. Grunnet. **Chief of Short Wave Dept.**: J. Rosenkjær. **Chief of Entertainment Dept.**: Sv. Pedersen. **Chief of Television**: Jens Fr. Lawaetz. **Chief of Techn. Dept.**: Fr. Heegaard.

HOME SERVICE:

1st Progr.: W.: 05.00-09.40, 10.50-13.05, 14.00-22.00.
Sun.: 07.00-14.00, 14.25-22.00.

	kc/s	m	kW
Kalundborg I	245	1224	60
Herstedvester	1430	210	15
Copenhagen	1484	202	2*
Herstedvester	6060	49.50	50**
Copenhagen FMI	90.7 mc/s		5

* 18.15-21.15 only. **17.40-21.15 only.

News: 05.00(W.), 06.00(W.), 07.00, 11.30, 17.45, 21.00.
Weather reports 07.45, 10.55, 16.10(W.), 17.20(Sun.).

2nd Progr.: W.: 18.15-21.00. Sun.: 08.00-11.00, 18.15-21.00

	kc/s	m	kW
Kalundborg II	1061	283	60
Herstedvester	1430	210	15
Skive	1430	210	70
Aalborg	1484	202	0.25
Tønder	1484	202	0.25
Esbjerg	1594	188	2
Copenhagen FMII	95.6 mc/s		5

Announcement: "Danmarks Radio Program I (Program II)".

Interval-Signal: Progr. I: From an old Danish folksong:



Daily at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.

Progr. II:



FOREIGN SERVICE:

Abbreviations: NA=North America. SA=South America. FE=Far East. Au=Australia. NZ=New Zealand. FI=Faroe Islands. HS=Home Service. DS=Danish Ships. ME=Middle East. A=Africa. E=Europe. SAS=South Asia.

	kc/s	m	kW
Herstedvester OZF3	6060	49.50	50
Herstedvester OZF4	7260	41.32	50
Herstedvester OZF5	9520	31.51	50
Herstedvester OZF7	15165	19.78	50
Herstedvester OZF8	15180	19.76	50
Herstedvester OZF9	15320	19.58	50

00.00-00.20 Tues., Thurs., Sat. on 9520 kc/s DS

01.30-02.30 Daily on 9520 kc/s NA

02.30-02.50 Tues., Thurs., Sat. on 9520 kc/s DS

03.00-04.00 Daily on 9520 kc/s NA

04.00-04.20 Tues., Thurs., Sat. on 9520 kc/s DS

05.00-06.00 Tues., Fri. on 15180 kc/s A, ME

09.00-10.00 Tues., Thurs., Sat. on 15165 kc/s FE, Au, NZ

10.00-10.20 Tues., Thurs., Sat. on 15165 DS

14.00-15.00 Sun. on 9520 kc/s FI

14.00-15.00 Tues., Thurs., Sat. on 15165 kc/s SAS

15.00-15.20 Tues., Thurs., Sat. on 15165 kc/s DS

17.00-17.20 Tues., Thurs., Sat. on 9520 kc/s DS

17.40-21.15 Daily on 6060 kc/s HS

23.00-24.00 Mo., Wed., Fri. on 9520 kc/s SA

Programmes consist of News in Danish, Danish Music and Songs, Talks and Features about life in Denmark and Reportages. Every day except Sun. parts of North American programmes are presented in English. On Wed. 23.00-23.30 and on Fri. 23.15-23.30 special programme in Spanish (to South America). Every transmission begins with the chimes of the Town Hall, followed by the National Anthem.

A special **DX-bulletin** is broadcast on Wed. at the end of the two North American programmes.

Interval-Signal: The first movement of "Som en rejslysten Flaade" composed by Carl Nielsen.



Announcement: "Danmarks Kortbølgesender". - "You are tuned to the Voice of Denmark".

Message to Listeners: The Danish State Radio is anxious to receive reports on programmes and on reception conditions from all parts of the world. It makes every endeavour to get into touch with country-men and listeners in countries abroad with a view to providing the best possible short wave service.

Verification: Reports answered by letter or QSL-card.

REPUBLIC OF EIRE (Government)

Address: "Radio Eireann", G.P.O. Dublin.

Leading Personalities: Minister for Posts and Telegraphs: Erskine H. Childers. Chairman, Radio Eireann Council (4 other members): Charles I. Brennan. Dir. of Broadcasting: Maurice Gorham. Administr. Officer: M. Doherty. Controller of Progr.: R. Farren.

HOME SERVICE in English and Irish:

08.00-09.15, 13.00-14.30, 17.30-23.00*)

Athlone	566 kc/s	530	m	100 kW
Dublin	1250	-	240	-
Cork	1250	-	240	-

* May-October one hour earlier.

News: I=Irish. E=English: D.: 08.00 (E), 09.00 (E), 13.30(E), 18.30(E), 22.00(I), 22.15(E). *Sunday Mass.*: 10.30. *The Angelus*: D.: 18.00. The evening news are also transmitted on s. w.

Announcement: "Radio Eireann".

Interval-Signal: Musical Box playing 4 bars of Irish Air "O'Donnell Abu".



Verification by letter.

FINLAND

Address: Oy. Yleisradio Ab., Unioninkatu 16, Helsinki. - For listeners reports: Oy. Yleisradio Ab., Information Department. *Cable:* Yleisradio (Government).

Leading Personalities: Dir.-Gen.: Einar Sundström. Deputy Dir.-Gen.: Onni Toivonen. Dir. of Finnish Progr.: Jussi Koskiluoma. Dir. of Swedish Progr.: Ragnar Ölander. Techn. Dir.: Juho Rissanen.

HOME SERVICE:

W.: 04.30-06.20, 08.50-12.10, 15.00-21.00. Sun.: 05.45-21.00.

	kc/s	m	kW		kc/s	m	kW
Lathi	254	1181	200	Helsinki II	1484	202	2
Oulu	433	693	10	Pietarsaari	1484	202	1
(Uleåborg)				(Jakobstad)			
Joensuu	520	577	1	Pori	1484	202	1
Helsinki I	557	539	100	(Björneborg)			
(Helsingfors)				Tammisaari	1484	202	0.2
Kuopio	755	397	20	(Ekenäs)			
Ylivieska	835	359	10	Tampere	1484	202	1
Helsinki III	845	355	0.2	(Tammerfors)			
Turku I	962	312	100	Turku II	1484	202	0.2
(Åbo)				Karjaa	1594	188	0.2
Vaasa (Vasa)	1241	242	20	(Karis)			
				Pori OIX7	6120	49.02	15

Finland - France

FM-Stations:

	mc/s	kW		mc/s	kW
Helsinki I	91.9	60	Vaasa I	95.2	30
Helsinki II	94.6	0.7	Turku	94.3	10
Jyväskylä	92.2	10	Imatra	91.0	10
			Rovaniemi	96.7	10

News in Finnish: 04.35(W.), 06.00(W.), 06.30(S.), 10.30, 17.00, 20.00. *News in Swedish:* 04.45(W.), 06.10(W.), 06.40(S.), 10.40, 17.15, 20.10. *Press Review:* In Finnish: 10.15. In Swedish: 14.45(Mo. Fri.). *The Bells of Turku Cathedral:* 10.00(W.). - *Swedish by Radio:* Finnish. Tues. 16.00 (Helsinki). - *Russian by Radio:* Finnish. Tues. 16.00 (Lahti).

FOREIGN SERVICE: Europe 11.40-13.00, U.S.A. 19.30-21.30.

Pori OIX2	9555 kc/s	31.40 m	15 kW
Pori OIX4	15190 -	19.75 -	100 -
Pori OIX5	17800 -	16.85 -	15 -
D.: 19.30	News English	W.: 12.20	News French
19.50	News French	12.35	Music
20.05	Finnish talks	12.45	Press Review
	music		Finnish
21.00	Swedish talks,	13.00	Close down
	music (not Mo.)	Sun.: 11.40	News Finnish,
21.30	Close down		Swedish
W.: 11.40	News, Finnish	12.00	For Sailors Fin-
	Swedish		nish, Swedish
12.00	News English	13.00	Close down

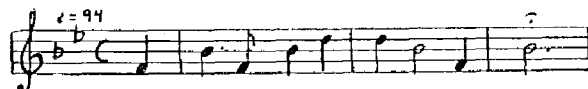
Announcements: *Finnish:* "Suomen Yleisradio" followed by program announcement, (all stations). *Finnish and Swedish:* "Suomen Yleisradio, Finlands Rundradio", (Helsinki, Turku, Vaasa and Pietarsaari). **Interval-Signals:** Every weekday at 08.45: Normal-a. *Lahti and Helsinki:* The interval-signal is based on an old Finnish melody, the "Kantele melody".



Turku: A fragment of "Ergo plebs finnonica", the hymn of St. Henrik.



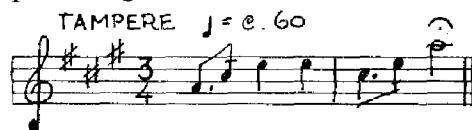
Vaasa: The first notes of "Vasa March" by Karl Collan.



Kuopio: The first notes of a well-known song about the beauty of the lake Kallavesi.



Tampere: The first notes of a well-known folk-song, "On the Tampere bridge".



Oulu: Lapp yodelling.



Verification by QSL-card.

FRANCE

Adresses:

The Central Service - Radiodiffusion Télévision Française 107, rue de Grenelle, Paris 7ème. *Cable:* Radiodi à Paris. *The Regional Service* - 2, Cours de Tournon, Bordeaux. - 36, Bld. de la Liberté, Lille. - 6, Bld. V. Hugo, Limoges. - 20, Quai Gailleton, Lyon. - 34, Rue Croix-de-Régner, Marseille. - 6, Rue Hippolyte Maringer, Nancy. - Palais du Commerce, Rennes. - Villa Greiner, 2, Av. de la Mar-seillaise, Strasbourg. - 78 bis, Allée Jean-Jaurès, Toulouse.

Leading Personalities:

The Central Services: Président du Conseil Supérieur: M Rivet Paul. Directeur Général: M Porche. Chef du Ser-vice des Affaires Générales: M Bonami. Directeur des Services Généraux: M Tardas. Directeur des Services Techniques: M Leschi. Chef du Service de l'Exploitation: M Barroux. Directeur des Services Artistiques: M Gilson. Directeur des Programmes de Télévision: M d'Arcy. Administrateur des Services Artistiques: M Lenoble. Di-recteur des Informations et du Journal Parlé: M Gayman. Chef du Service des Emissions vers l'Etranger: M Rollin. Chef du Service des Echanges Internationaux: M Robida. Directeur du Programme National: M Barraud. Directeur du Programme Parisien: M Brechignac. Directeur de Paris-Inter: Mme Mella. Chef du Club d'Essai et du Centre d'Etudes Radiophoniques: M Tardieu.

The Regional Services (Regional Directors): Bordeaux: M Dieduaide. Lille: M Lafond (par intérim). Limoges: M Sudrie. Lyon: M Wadin. Marseille: M Besse. Nancy: M Villatte. Rennes: M Favennec. Strasbourg: M Caussidery. Toulouse: M Beral.

NATIONAL NETWORK (Reseau Branley):

	kc/s	m	kW		kc/s	m	kW
Paris I	863	348	100	Marseille I	710	422	100
Bordeaux I	1205	249	100	Strasbourg II	1277	235	100

Synchronized Network I: 1241 kc/s 242 m 20 kW

Lille II, Nancy II, Pau, Rennes II, Lyon II, Nice III, Quimper I.

Synchronized Network II: 1349 kc/s 222 m 20 kW.

Clermont, Grenoble I, Nantes, Dijon, Limoges II, Tou-louse II.

Synchronized Network III: 1484 kc/s 202 m 0.5/1 kW:

Annemasse, Caen, Poitiers, St. Brieux.

Daily Programmes: Mo., Thurs., Sat.: 05.45-22.45. Tues., Wed., Fri.: 05.30-08.15, 11.00-13.30, 17.30-23.00. Sun.: 06.30-23.00. *News:* W.: 06.00, 08.00, 12.00, 13.00, 18.30, 22.45. Sun.: 07.00, 08.05, 12.00, 18.40, 22.45.

"Ici New York" (relay "Voice of America"). W.: 17.30. "Paris vous Parle": W.: 18.30. Sun.: 18.40.

PARISIENNE NETWORK: (Reseau Ferrière)

	kc/s	m	kW		kc/s	m	kW
Paris II	1070	280	100	Toulouse I	944	318	100
Marseille II	syncr. st. 20			Lyon I	602	498	100
Lille I	1376	218	100	Nancy I	836	359	100
Rennes I	674	445	100	Strasbourg I	1160	259	100
Limoges I	791	379	100				

Synchronized Network IV: 1403 kc/s 214 m 20 kW: Bordeaux II, Louvetot, Montpellier I (10 kW), Nice II, Quimper II.

Daily Programmes: Mo., Thurs., Sat.: 06.45-22.30, Tues., Wed., Fri.: 05.30-08.00, 11.00-13.00, 17.30-21.45. Sun.: 07.00-22.30. *News:* W.: 05.30, 07.00, 11.30, 19.00. Sun.: 11.30, 19.00, 21.45. - "Actualités de Paris": W.: 11.30. "Variétés": W.: 06.00-14.55 (Mo. only), 19.30 (exc. Fri., Sat.). "Le Disque des Auditeurs": Sun.: 07.45. "Maga-zine de la Radio et Télévision": Sun.: 08.15. "Actualités de Paris": Sun.: 11.30. "Ici New York"(relay Voice of Ame-rica): Sun.: 17.30.

PARIS INTER NETWORK:

Allouis 164kc 1829 m 250kW - Nice I 1554kc 193 m 60kW

Low Power Stations:

Paris Grenelle 584 kc 514 m 1 kW.

Toulouse III (0.25 kW), Marseille III (1 kW), Nantes II

(0.05 kW), Nancy III (0.05 kW), Strasbourg III (0.05 kW), 1493 kc 201 m.

Perpignan (1 kW), Montpellier II (0.25 kW), Grenoble II (0.05 kW): 1484 kc 202 m.

Toulon (0.05 kW), Nîmes (2 kW): 1594 kc 188 m.

Daily Programmes: W.: 05.30-23.15. Sun.: 06.30-23.15. *Opera* from "l'Opera Comique" once monthly. *Symphony* Thurs 19.00. *News* in 3 to 5 minutes: 07.15, 08.15, 09.15, 10.15, 12.15, 13.15, 14.15, 17.15, 19.30, 22.00.

SPECIAL BROADCASTS: Romainville ("Culture Française" and "Club d'Essai"): 962 kc 312 m 5 kW.

FM: 99 mc/s 0.25 kW.

ANNOUNCEMENTS:

The National, the Parisienne and Paris Inter Networks: At opening and close down: "La Marseillaise". General announcement: "Ici Paris Radiodiffusion Française", programs National (or "Parisien" or "Paris Inter"). **Bordeaux:** "Ici Bordeaux Radiodiffusion Française". **Lille:** The first movements of the melody "Petit Quinquin" followed by "Ici Radio-Lille - Radiodiffusion Française". **Limoges:** Folklore melody from Limoges followed by "Ici Limoges - Radiodiffusion Française". **Lyon:** The first movements of the melody "Boeufs" by P. Dupont followed by "Ici Lyon - Radiodiffusion Française". **Marseille:** The first movements of the Provençal Suite by Bessière followed by "Ici Marseille - Radiodiffusion Française". **Nancy:** The first movements of "La Marche Lorraine" followed by "Ici Radio Lorraine". **Rennes:** The first movements of "Troyens" by d'Hector Berlioz followed by "Ici Radio Bretagne". **Strasbourg:** The first movements of "Que notre Alsace est belle" followed by "Ici Strasbourg - Radiodiffusion Française". **Toulouse:** The first movements of "Montagnards" by Roland

FOREIGN SERVICE:

Allouis (5 transm. each 100 kW, 1 transm. 10 kW).

Issoudun (4 transm. each 100 kW).

5955 50.37	7220 41.55	9675 31.01	15100 19.87
5965 50.28	7240 41.44	9680 30.99	15240 19.68
6045 49.63	7280 41.21	9685 30.98	15295 19.61
6145 48.82	9540 31.45	9755 30.76	15350 19.54
6200 48.39	9550 31.41	9765 30.72	15400 19.48
7105 42.22	9560 31.38	11700 25.64	17850 16.81
7120 42.13	9620 31.19	11845 25.32	21640 13.86
7160 41.89	9640 31.12	11920 25.17	21740 13.79

EUROPEAN SERVICE:

German: W.: 18.00-19.00 on 1277, 6045 kc/s. Sun.: 18.40-19.30 on 1277 kc/s.

Bulgarian: 18.45-19.30 on 9560 kc/s.

Czech and Slovak: D.: 19.00-20.00 on 7105, 5955 kc/s (Also Tanger 9685 kc/s.)

Danube Balkan in French: Sun.: 17.30-17.45 ("Emission religious 'UNITAS'") on 5955, 7220 kc/s. D.: 20.00-20.57 on 5955, 7105 and 9685 (Tanger) kc/s.

Finnish: D.: 17.15-17.30 on 5955, 7220 kc/s.

English to Great Britain: D.: 07.45-08.00 (French by Radio) on 7240 kc/s W.: 19.45-20.00 (French by Radio from R. Brazzaville) on 9440, 11970 kc/s, 22.00-23.00 on 1376 kc/s. Sun.: 13.00-14.00 on 7240 kc/s.

Greek: D.: 11.30-11.45 (relayed by R. Athens) on 15295 kc/s.

Hungarian: D.: 18.15-19.00 on 5955, 7240, 9640, 9685 (at 21.00 from Tanger) kc/s.

Polish: D.: 19.00-19.55 on 6045, 7160, 9640 kc/s. W.: 17.00-17.15 (French by Radio) on 5955, 7220 kc/s. 17.30-18.00 on 1376 kc/s. Sun.: 10.00-11.00 (Religious Service from the Polish church) on 7280, 9560 kc/s.

Portuguese: W.: 08.00-08.15 on 7240 kc/s (Frch. by Radio) D.: 19.00-19.30 on 7240, 9765 kc/s.

W.: 19.30-19.45 on 9765 kc/s (Frch. by Radio) **Rumanian:** D.: 18.00-18.45 on 9560, 11920 kc/s.

Spanish: D.: 21.00-21.45 on 5955, 7240 kc/s.

Sun.: 22.00-22.45 on 944 kc/s.

Yugoslavia: D.: 18.00-19.00 on 7160, 9675 kc/s.

OVERSEAS SERVICE:

French:

To Madagascar, Comoro Islands, French Somali Coast, Reunion, Kerguelen:

03.30-03.45 on 7105 kc/s.

16.00-17.15 on 11845, 15350 kc/s (relayed by St. Denis).

To Tahiti, Marquesas Islands:

05.30-06.30 on 9550 kc/s.

To French West Africa and French Equatorial Africa:

06.45-07.30 on 11920, 15240 kc/s.

20.00-21.30 on 9560, 11700, 15240 kc/s.

To New Caledonia, New Hebrides:

07.30-08.00 on 15240, 17850 kc/s.

To Antilles, Guiana, St. Pierre and Miquelon:

10.30-11.00 on 15240 kc/s.

23.30-01.00 on 9685, 11700 kc (rel. by Ft. de France).

To Indo-China:

12.58-15.00 15400, 17850 kc/s.

22.30-23.00 on 9675 kc/s.

To Canada:

15.30-15.45 on 15350, 17850 kc/s (Mo.-Fri.).

To Middle East: 17.15-18.00 on 9675, 11845 kc.

Spanish to Latin America: 23.00-23.15 on 9685, 11700 kc (exc. Sun.).

Announcement: "Allo... (name of area), Paris vous parle". Verification by QSL-card.

GERMANY

GERMAN FEDERAL GOVERNMENT BUNDESREPUBLIK DEUTSCHLAND

DEUTSCHE WELLE

Kurzwellendienst der Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunk-Anstalten der Bundesrepublik Deutschland.

Address: Deutsche Welle, Köln-Funkhaus NWDR.

Leading Personality: Chief-Editor: Dr. Hans Otto Wessmann.

FOREIGN SERVICE in German: 20 kW.

5980 kc/s 50.16 m 7290 kc/s 41.15 m 15275 kc/s 19.64 m

17845 - 16.81 - 11795 - 25.44 - 17815 - 16.84 -

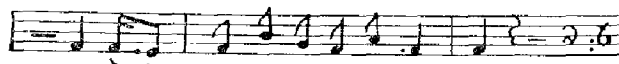
Abbreviations: FE=Far East. NE=Near East. A=Africa. SA=South America. NA=North America.

		Beamed 5/11-5/2	6/2-5/5	6/5-5/8	6/8-5/11
	to	kc/s	kc/s	kc/s	kc/s
10.30-13.30	FE	11795	15275	15275	15275
14.30-17.30	NE	7290	11795	17815	11795
18.00-21.00	A	7290	11795	17845	11795
22.00-01.00	SA	7290	11795	11795	11795
01.30-04.30	NA	7290	7290	11795	7290
01.30-04.30	NA	5980 kc throughout the year.			

News: D.: 10.30, 13.15, 14.30, 17.15, 18.00, 20.45, 22.00, 00.45, 01.30, 04.15. - "Wie wir leben": D.: 12.30, 16.30, 20.00, 24.00, 03.30.

Announcements: *German:* "Hier ist die Deutsche Welle". *English:* "This is the Voice of Germany".

Interval-Signal: Motive from "Fidelio": "...es sucht der Bruder seine Brüder".



Verification by QSL-card.

BAYERISCHER RUNDFUNK

(Körperschaft des öffentlichen Rechts).

Address: Der Bayerische Rundfunk, Anstalt des öffentlichen Rechts, München 2, Rundfunkplatz 1. **Cable:** Bayernfunk.

Germany

Leading Personalities: Superintendent: R. von Scholtz. Techn. Dir.: Fr. Zaekel. Dir. of Administration: H. Spies. Chief of Production: O. Freundorfer. Ass. Dir. of Administration: A. Prücklmeier.

HOME SERVICE in German:

Medium Wave Programme: W.: 04.30–08.50, 09.30–24.00. Sat. 04.30–24.00. Sun.: 05.00–24.00.

Medium Waves:

Medium Pass.					Medium Pass.				
	kc/s	m	kW		kc/s	m	kW		
Bayreuth	520	577	0.2	1)	Passau	1484	202	2	2)
Nürnberg	520	577	5	2)	Regensb.	1484	202	2	2)
München	800	375	100	3)	Weiden	1484	202	2	2)
Hof	962	312	0.4	3)	Würzburg.	1484	202	2	2)
Augsbg.	1484	202	2	2)	Nürnberg.	1602	187	20/40	3)
Coburg	1484	202	2	2)	Landau	1602	187	20	2)
Kempten	1484	202	2	2)	Kirch-				
Landshut	1484	202	2	2)	heim	1602	187	20	2)

1) Day. 2) Night. 3) Day and Night.

1) Day. 2) Night. 3) Day and Night.

Short Wave: München 6160 kc/s 48.70 m 10 kW 3).

News: 05.45 (Sun.), 06.00(W.), 07.00(W.), 08.00, 12.00, 16.00(W.), 18.45, 21.15, 23.00.

FM-Programme: W.: 04.30–08.50, 09.30–24.00. Sat. 04.30–24.00. Sun.: 05.00–24.00.

14.00-24.00: Sun. 05.00-24.00:			mc/s kW		
München	88.2	0.15	München-	mc/s kW	
Ochsenkopf	88.2	10	(Freimann)	91.8	0.15
Gelbelsee	88.5	3	Lindau	91.8	0.25 2)
Burgstall	88.8	3 1)	Landshut	91.8	0.1
Traunstein-			Kreuzberg	93.0	10
Hochberg	89.1	1	Kreuzack	93.0	0.15
Rothbül	89.4	3 1)	Passau	93.0	0.15
Berchtesgad.	89.7	0.25	Moritzberg	93.9	3
Coburg	90.0	1	Augsburg	94.2	0.15
Wendelstein	90.0	5	Pfaffenberg	94.2	3 1)
B. Reichenhall	90.3	0.25	Hohe Linie	94.5	3
Tegernsee	90.6	0.1	Büttelberg	96.6	5 1)
Grünten	90.6	10	Hohenpeis-		
Bamberg	90.9	1	senberg	97.8	3
Würzburg	91.2	1	Hühnerberg	98.1	5
Brotjacklriegel	91.5	10	1) Irregularly		
Nürnberg	91.5	0.15	2) Winter 53/54		

(Schweinau)
News: 06.00(W.), 08.00(W.), 12.00, 16.00(W.), 20.00, 22.00, 23.00(W.).

Announcement: "Hier ist der Bayerische Rundfunk".

Interval-Signal: "Solange der alte Peter", music by a kind of cymbal named "Hackbrett".



Verification by QSL-card or by letter. Return postage is not required.

HESSISCHER RUNDFUNK (Am. Zone).

Address: Hessischer Rundfunk (Anstalt des öffentlichen Rechts), Bertramstrasse 8, Frankfurt/Main.

HOME SERVICE in German:

Frankfurt	593	kc/s	505.8	m	100	kW
Meissner	593	—	505.8	—	20	—
Frankfurt	6190	—	48.47	—	1.2	—
Biedenkopf	FM	87.6	10	kW		
Feldberg	FM	88.5	10	—		
Meissner	FM	89.7	10	—		
Würzburg	FM	91.8	0.25	—		
Hardberg	FM	89.7	0.25	—		
Feldberg	FM	92.1	10	—		

1st Programme: W.: 04.00–23.00(Sat. 03.30 (only Frankfurt 593 kc/s)). Sun. 05.00–23.00 on 593, 6190 kc/s and 88.5 mc/s.

2nd Programme: FM-stations exc. 88.5 mc/s. Mo.–Fri. 17.00–23.00, Sat. 13.00–24.00, Sun. 06.15–23.00.

Mo.–Fri. 04.30–17.00, Sat. 04.30–13.00, Sun. 05.00–06.15. All stations are radiating the First Programme.

News on all frequencies: 04.30, 05.00(W.), 06.00, 11.45 (Sun. 11.50), 16.45(W.), 18.30, 21.00, 23.00(Sat. 24.00).

Announcement: "Hier ist Frankfurt" or "Hier ist der Hessische Rundfunk".

Interval-Signal: Motif from Humperdinck's Opera "Königskinder" (Waldhorn).



Verification by QSL-card.

NORDWESTDEUTSCHER RUNDFUNK

Address: (24a) Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** "Nordfunk". – **NWDR Köln:** Köln/Rhein, Wallrafplatz 5, **NWDR Berlin:** Berlin-Wilmersdorf, Heidelbergplatz 3. **NWDR Hannover:** Hannover Rudolf-von-Bennigsen-Strasse. **Studios:** Bonn: Bundeshaus. Düsseldorf: Klosterstrasse 60. Dortmund: Märkische Str. 120. Flensburg: Friedrich-Ebert-Str. 1. Oldenburg: Oldenburg i. O., Ziegelhof.

Leading Personalities: Dir. Gen.: Dr. h.c. A. Grimme. Deputy Dir. Gen. and 1st Dir.: Dr. F. Schmidt. Chief Eng.: Dr.-Ing. W. Nestel. Administrator: Dr. G. Hubrich. Justitiar: Dr. H. Brack. "Leiter des Aussenreferats": W. D. Schultz. – **Funkhaus Hamburg:** Intendant: E. Schnabel. Deputy-Intendant: Dr. W. Hilpert. **Funkhaus Köln:** Intendant: H. Hartman. Studio Controller and Deputy Intendant: H. Fischer. **Funkhaus Berlin:** Dr. F. Rupp. **Funkhaus Hannover:** Dr. Franz Zons.

HOME SERVICE in German:

Medium Wave Programme:

	kc/s	m	kW		kc/s	m	kW
*Hamburg	151	1986	50	Göttingen	971	309.0	5
Berlin	566	530.0	20/5	Lingen	1570	191.1	5
Aachen	701	427.8	5	Kiel	1586	189.1	2
Herford	701	427.8	2	Hannover	1586	189.1	20
Osterloog	701	427.8	2	Osnabrück	1586	189.1	5
Braunschweig	701	427.8	5	Bonn	1586	189.1	5
Flensburg	755	397.3	1.5	Oldenburg	1586	189.1	40
Siegen	755	397.3	2	Münster	1586	189.1	0.1
Hamburg	971	309.0	50				
Langenberg	971	309.0	50				

Daily Programmes: W.: 03.55–00.15 (Sat. 01.15), Sun. 04.58–00.15. – Mo., Fri., Sat., Sun. to 03.30 Hamburg, Langenberg, Berlin and Südwestfunk (Mo. only), Hessischer Rundfunk (Fri, Sat. only).

News: W.: 04.00, 05.00, 06.00, 07.00, 07.55, 12.00, 16.00, 18.00, 20.45, 23.00. Sun.: 06.00, 08.00, 12.00, 18.00, 20.45, 23.00. "Seewetterbericht": 24.00.

* Experimental 19.00–24.00. ** 04.30–24.00.

FM-Programme NORD: 05.30 (Sun. 06.30)–24.00.

	mc/s	kW		mc/s	kW
Lübeck	87.9	0.25	Oldenburg	91.2	10
Hamburg	88.5	10	Lingen	92.4	3
Göttingen	88.8	1	Hannover	93.0	10
Flensburg	89.4	3	Osterloog	93.3	3
Berlin	90.0	3	Osnabrück	93.6	1.5
Heide	90.0	3	Kiel	94.2	1
Braunschweig	90.9	1.5	Bungsberg	95.7	0.25

FM-Programme-WEST: 05.30 (Sun. 06.30)–24.00.

	mc/s	kW		mc/s	kW
Bonn	88.8	0.25	Münster	94.5	3
Aachen	89.1	1	Langenberg	95.7	10
Köln	89.7	1	Hamburg*)	96.3	0.04
Siegen	91.8	1.5	Monschau	98.4	0.05
Nordhelle	93.9	3	Teutoburger Wald	99.0	3

Germany

FM-stations relaying m.w. programme:

	mc/s	kW		mc/s	kW
Berlin	88.8	0.1	Hamburg*)	95.1	0.1
Köln	93.3	0.25	Hannover	97.8	0.8

*) Experimental.

Announcement: "Hier ist der Nordwestdeutsche Rundfunk . . . (name of station)."

Interval-Signal: Motif from the first movement of Johs. Brahms' 4th Symphony, played from Hamburg on two oboes, Cologne on two horns, Berlin on two clarinets and Hannover on two trumpets.

Interval-Signal:



Verification by QSL-card or letter. Reports to be addressed to: Nordwestdeutscher Rundfunk, Senderüberwachung, Zentrale Wittsmoor/Post Wedel, Holstein, or to Technischer Hörerpost, Hamburg 13, Rothenbaumchaussee 132/134.

Future-Plans: Low power m.w. stations and FM-stations at Kleve, FM-station at Dannenberg.

RADIO BREMEN

Address: Heinrich Hertz Strasse 13, Bremen.

Home Service in German:

First Programme:

Bremerhaven 1079 kc/s 278 m 2 kW
Bremen 1358 - 221 - 20 -

W.: 05.30-08.45, 08.45-09.30 (relay FM West), 09.30-11.00 (relay FM North), 11.00-13.30, 14.00-15.00 (relay FM North), 15.00-22.15, 22.15-23.00 (relay FM West), 23.00-24.00 (relay FM North).

News: 06.00 (W.), 07.00, 08.00 (W.), 11.45, 15.45 (W.), 18.45, 22.00. Entertainment progr. from RIAS: 00.00-04.00 Wedn., Thurs.

Second Programme. FM:

Bremen 89.1 mc/s 25 kW Bremerhaven 91.8 mc/s 0.5 kW
W.: 05.30-19.00 (relay 1. Progr.), 19.00-22.00, 22.00-24.00 (relay 1. Progr.), Sun. 06.00-15.00 (relay 1. Progr.), 15.00-22.00, 22.00-24.00 (relay 1. Progr.).

Announcement: "Hier ist Radio Bremen". - **Interval-Signal:** The notes B, D.E. - Verification by letter.

SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts):

Address: Süddeutscher Rundfunk, Neckarstrasse 145, Stuttgart. - Cable: Rundfunk Stuttgart.

Leading Personalities: Intendant: Dr. Fritz Eberhard. Director of Programmes: Dr. Peter Kehm. Administrator: Friedrich Müller. Chief Engineer: Dr. Helmuth Rupp. Chief for Plays: Mrs. Cläre Schimmel. Director of Music: Hans Müller-Kray.

HOME SERVICE:

Medium Wave:	kc/s	m	kW
Mühlacker	575	522.0	100
Heidelberg-Dossenheim	998	301.0	8
Ulm-Jungingen	1169	257.0	1
Heilbronn-Oberesheim	1169	257.0	8
Bad Mergentheim Löffelstelzen	1412	212.4	3
Short Wave: Mühlacker	6030	49.75	20
FM*)	mc/s	kW	
Geislingen-Oberböhlingen	87.6	0.25	
Heidelberg-Königstuhl I	87.9	10	
Mühlacker	88.8	1	

	mc/s	kW
Bad Mergentheim-Löffelstelzen	88.85	0.1
Aalen I	89.1	3
Stuttgart-Funkhaus	89.6	0.25
Stuttgart-Degerloch I	90.9	10
Ulm-Wilhelmsburg	91.5	0.25
Waldenburg	93.6	10
FM**)		
Heidelberg-Königstuhl II	91.5	0.25
Aalen II	92.7	3
Stuttgart-Degerloch II	94.5	3

First Programme:

575 kc/s: Mo., Fri. 03.55-23.10. Tues., Wed., Thurs. 03.55-03.15. Sat. 03.55-24.00. Sun. 05.00-24.00. - 6030 kc/s: Relay 575 kc/s Mo.-Fri. 03.55-23.10. Sat. 03.55-24.00. Sun. 05.00-24.00. - 998, 1169, 1412 kc/s: Mo.-Fri. 14.00-17.30, 19.05-23.10. Sat., Sun. 19.05-24.00.

FM*): Mo.-Fri. 03.55-17.30. Sat. 03.55-14.00.

FM**): Mo.-Fri. 17.30-23.10. Sat., Sun. 14.00-24.00.

News: 04.30(W.), 05.00(W.), 06.00(W.), 06.55, 08.00(W.), 11.30, 17.00(W.), 18.30, 21.00, 23.00.

Second Programme:

998, 1169, 1412 kc/s: Mo.-Fri. 17.30-19.05. Sat., Sun. 14.00-19.05.

FM*): Mo.-Fri. 17.30-22.05. Sat. 14.00-24.00. Sun. 14.00-22.15.

News: 17.00(W.), 18.55(W.), 20.15 (exc. Sat., Sun.), 22.00 (Sun. only).

Announcement: "Süddeutscher Rundfunk".

Interval-Signal: The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele".



Verification by letter.

SÜDWESTFUNK (French Zone).

Address: Südwestfunk, Anstalt des Öffentlichen Recht, Moltkestrasse 5, Baden-Baden.

Leading Personalities: Intendant: Prof. Fr. Bischoff. Progr. Dir.: L. Hartmann. Chief-Eng.: E. Becker. Administrator: A. Manke. Press- and Information Dept.: Dr. E. Laurenze. Studio-Director: K. Stippich. Legat Adviser: Prof. Dr. Carl Haensel.

HOME SERVICE in German:

First Programme

Medium Waves:

	kc/s	m	kW
Baden-Baden	827	363	1.5
Freiburg	827	363	18
Sigmaringen	827	363	1
Koblentz	827	363	0.5
Trier	827	363	1
Kaiserlautern	827	363	2
Rheinsender	1016	295	70
Bad Dürkheim	1538	195	20
Ravensburg	1538	195	40
Reutlingen	1538	195	5

1) synchronized. 2) synchronized.

FM:

	mc/s	kW		mc/s	kW
Witthoh I	87.6	1	Betzdorf I	93.0	0.25
Hochrheinsender I	89.1	0.1	Haardkopf I	93.6	3
Baden-Baden I	89.9	0.25	Koblentz I	94.5	1
Blauen I	91.5	3	Potzberg I	95.4	3
Reichberg I	91.8	3	Linz a. Rh. I	97.8	3
Hornisgrinde I	93.0	10			

W.: 05.00-08.45, 10.00-23.10 (Wed. 24.00. Sat. 01.00. Mo. 03.45 exc. 1016 kc/s). Sun.: 06.00-03.45 (1016 kc/s 00.15). - News: 05.00(W.), 06.00, 07.00, 07.10(W.), 11.45, 16.30(W.), 17.10(W.), 21.00, 23.00.

Second Programme

Short Wave:

Baden-Baden 6320 kc/s 47.47 m 1 kW.

Germany

FM:	mc/s	kW		mc/s	kW
Blauen II	87.9	3	Potzberg II	91.2	3
Reichberg II	88.2	3	Witthoh	91.2	1
Mainz	89.1	0.05	Waldburg	92.4	3
Hornisgrinde II	89.4	10	Baden-Baden II	92.5	0.25
Betzdorf	89.4	0.25	Hochrhein-		
Haardtkopf II	90.0	3	sender II	92.7	0.1
Weinbiet	90.3	6	Linz a. Rh. II	96.0	3
Koblentz II	90.9	1	Wolfsheim	99.3	3

Mo.-Fri. 10.00-23.10 (Wed. 24.00), Sat. 07.30-08.45, 10.00-01.00. Sun. 07.30-00.15. - News: 08.30 (Sun.), 11.45, 16.30(W.), 17.30(W.), 18.00(W.), 20.00 (Mo.-Fri.), 21.00, 23.00.

Announcements: "Hier ist der Südwestfunk mit seinem I Programme (bezw. II Programme)".

Interval-Signals: Baden-Baden: Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden":



Studio Freiburg: "Glocken Motif des Freiburger Münsters: Petrus und Maria".



Studio Tübingen: "Droben im Oberland...".



Landesstudio Rheinland-Pfalz (Mainz):



Verification by letter.

WEST-BERLIN

RIAS (Radio in American Sector). (U.S. Gvt.).

Address: Berlin-Schöneberg, Kufsteiner Str. 69.

Leading Personalities: Dir. RIAS: Gordon A. Ewing. Dir. of Progr.: E. Schütz.

Stations:

	kc/s	m	kW	FM:
Hof	737	407.1	40	
Berlin	989	303.3	300	Berlin 93.6 mc/s 3 kW
Berlin	6005	49.96	20	

Daily Programmes in German:

737 kc/s: W.: 04.00-23.15, 02.05-04.00. Sun.: 04.00-23.25, 02.00-04.00.

989 kc/s: 6005 kc/s, 93.6 mc/s: W.: 04.00-07.40, 09.00-02.05. Sun.: 04.00-02.05.

News: 04.00, 04.30, 05.30, 06.30(W.), 07.30, 11.30, 12.30(W.), 15.30, 18.30, 21.00, 23.00, 24.00, 01.00, 02.00, 03.00. - Progr. U.S.S.R. Z.: Sun.: 06.00. W.: 04.35, 05.40, 06.20, 11.20, 12.40, 18.45, 23.10, 00.10, 01.00. - Geläut der Freiheitsglocke: W.: 17.30. - From Parliament in Bonn: Sun.: 09.30. - Europäische Sendung: Sun.: 17.00. - Die Funk-Universität: Mon., Tues.: 22.00. - Günter Neumann und seine Insulaner: Last Sun. every month: 19.05. - Symphony: Tues.: 19.06.

Announcement: "Hier ist RIAS-Berlin".

Interval-Signal:



Verification by letter.

ALLIED STATIONS

AMERICAN FORCES NETWORK (Military)

Operated by the Information and Education Division, U.S. Army in Europe.

Address: Information and Liaison Office, American Forces Network, APO 757, U.S. Army, Frankfurt/Main-Höchst.

Leading Personalities: Chief, AFN: Lt. Col. H. G. Price. Executive Office, AFN: Major J. Grant. Chief Eng.: F. Clarke. AFN Program Supervisor: Hunt Downs.

Stations:

Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Munich*	548	547	100A	Bad Kis-			
Nürnberg*	611	491	10A	singen	1034	290	0.25 B
Bayreuth	665	451	10A	Stuttgart*	1106	271	100A
Kaiser-				Bremer-			
lautern*	665	451	5A	haven*	1142	262	1A
Berlin*	854	351	5A	Würzburg	1142	262	0.25A
Fulda	854	351	0.25B	Füssen	1142	262	0.25A
Frankfurt*	872	344	150A	Hersfeld	1142	262	0.25 B
Kassel	1034	290	0.25A	Coburg	1142	262	0.25 B
Ansbach	1034	290	0.25 B	Bamberg	1304	230	0.25A
Heidelberg	1304	230	1.00A	Giessen	1502	199	0.25 B
Berchtes-				Hof	1502	199	0.35 B
gaden	1304	230	0.25A	FM:	mc/s		
Regensburg	1304	230	0.25A	Frankfurt	94.9		10
Sonthofen	1304	230	0.25A	Höchst	91.7		0.25
Bitburg	1394	215	0.25A	Heidelberg	93.9		0.25
Straubing	1394	215	0.35C	Short Wave (Relay):			
Garmisch	1502	199	0.25 B	Bayreuth	5470	55.03	0.25A

*) Studio Installations. A.: D. 05.00-24.00. B.: D. 17.00-24.00. C.: Standby.

News: 05.00, 06.00, 07.00 (W.), 09.00, 11.30, 13.00(W.), 14.00 (Sun.), 15.00 (W.), 16.00 (Sat.), 17.00 (Sun.), 17.15 (W.), 19.00 21.30, 23.00, 24.00.

The American Forces Network operates solely to provide American Forces in Europe with information, education and entertainment by means of radio broadcasting.

Announcement: "This is AFN, the American Forces Network" announced at least every half-hour.

Interval-Signal: Every hour on the hour AFN announces the time and the sixth and final pip is exactly on the hour as announced. - **Verification** by post-card.

RADIO LIBERATION

Address: Lilienthalstrasse 2, Munich 19.

Stations: Munich - 10 kW.

6175 kc/s 48.78 m - 7130 kc/s 42.08 m.

Daily Programmes: 10.00-22.30 in various Russian dialects.

VOICE OF AMERICA RELAY BASE (Government)

Address: Voice of America, c/o American Consulate, Munich, Germany, or Voice of American New York 19, N.Y., U.S.A.

Stations:

Medium Wave: Munich-A 1196 kc/s, 251 m, 150 kW; D.: 15.30-23.30.

Long Wave: Munich-C 173 kc/s, 1734 m, 1000 kW; D.: 16.15-23.30.

Short Wave: Munich 8/100 kW; 12.15-22.15.

kc/s	m	kc/s	m	kc/s	m
3980	75.38	7250	41.38	11805	25.41
5275	56.87	7255	41.35	11875	25.26
6080	49.34	7295	41.12	15160	19.79
6140	48.86	9540	31.46	15270	19.65
6185	48.50	9670	31.02	15280	19.63
7115	42.16	11775	25.48	17780	16.87
				21540	13.93

Daily Programmes: See U.S.A.

Announcement: "This is the American Relay Station in Europe broadcasting the Voice of America programs".
Verification by QSL-card.

RADIO FREE EUROPE

(Private-by American contribution)

Addresses: R. Free Europe, a Division of the National Committee for a Free Europe, Inc., 110 West 5th Street, New York 19, N.Y., U.S.A. Munich-address: Englischer Garten 1, Munich, Germany. **Cable:** RADEUROPA.

Leading Personalities: Pres. National Committee for a Free Europe (New York): W.H. Shepardson. Dir. R. Free Europe: R. E. Lang. Deputy Dir.: G. P. E. Caesar Jr. European Dir. R. Free Europe: R. J. Condon. Deputy European Dir. R. Free Europe: A. A. Michie.

Stations: Biblis, Holzkirchen (Germany) and Lisbon (Portugal). Holzkirchen m.w. 135 kW; Biblis 10/50 kW, Lisbon 7.5/50 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
719	417.2	7105	42.22	7300	41.10	11725	25.85
5960	50.37	7140	42.02	9607	31.23	11745	25.54
5970	50.25	7145	41.99	9655	31.07	11755	25.52
5985	50.12	7155	41.93	9695	30.95	11855	25.31
6020	49.83	7165	41.87	9712	30.89	11885	25.24
6095	49.22	7175	41.80	9717	30.87	15115	19.85
6105	49.14	7180	41.78	9725	30.85	15145	19.81
6130	48.94	7192	41.72	9750	30.77	15185	19.76
		7285	41.18	9775	30.68	15365	19.53

Czech/Slovak Service:

W.:	Sun.:
03.58-23.05.	05.58-23.05.
03.58-23.05: 417, 49, 31	05.58-23.05: 417, 49, 31
03.58-06.45: 41 m.b.	05.58-19.45: 25 m.b.
03.58-07.00: 41 m.b.	05.58-18.35: 19 m.b.
07.00-19.45: 25 m.b.	18.45-20.45: 25 m.b.
07.15-18.35: 19 m.b.	Daily: 23.05-23.35 417,
18.45-20.45: 25 m.b.	49, 41, 31 m.b.
20.00-23.05: 41 m.b.	

Hungarian Service:

W.:	Sun.:
04.56-23.00.	06.57-23.00.
04.56-23.00: 49, 41, 31.	06.57-23.00: 49, 41, 31
04.56-16.30: 49 m.b.	06.57-16.15: 49 m.b.
04.56-07.20: 41 m.b.	06.57-20.15: 25 m.b.
04.56-08.50: 31 m.b.	06.57-18.15: 19 m.b.
07.40-20.30: 25 m.b.	18.30-20.45: 25 m.b.
09.00-18.20: 19 m.b.	20.30-23.00: 41 m.b.
18.35-20.45: 25 m.b.	21.00-23.00: 31 m.b.
20.45-23.00: 41 m.b.	Daily: 00.05-01.40: 417,
21.00-23.00: 31 m.b.	49, 41, 31 m.b.

Polish Service:

W.:	Sun.:
03.55-08.25, 09.53-14.20.	06.49-23.00.
14.53-23.00.	06.49-23.00: 49, 41, 31 m.b.
03.55-08.25: 49, 41, 31 m.b.	06.49-16.30: 41 m.b.
09.53-14.20: 49, 41, 31, 25, 19.	06.49-21.05: 25 m.b.
14.53-23.00: 49, 41, 31 m.b.	06.49-19.45: 19 m.b.
14.53-16.20: 41 m.b.	17.00-23.00: 49, 41 m.b.
14.53-19.35: 19 m.b.	20.00-23.00: 31 m.b.
14.53-21.10: 25 m.b.	21.20-23.00: 41 m.b.
17.00-23.00: 49, 41 m.b.	Daily: 23.35-00.05: 417,
19.50-23.00: 31 m.b.	49, 41, 31 m.b.
21.25-23.00: 41 m.b.	

General Service: Daily 16.58-21.26 in 49-41 m.b.

Bulgarian: 16.58-17.45, 18.25-19.15, 19.55-20.45.

Rumanian: 17.45-18.25, 19.15-19.55, 20.45-21.26.

News every hour on the hour in Czechoslovak, Hungarian and Polish.

Announcements: **Czechoslovak:** Sign on: "Vola hlas Svobodneho Ceskoslovenska rozhlasova stanice Svobodna Evrope". - Sign off: "Rozhlasova stanice Svobodna Evropa konci nyní své každodenni vysilani... At zije svobodné Československo!". - **English:** "This is the Voice of Free Czechoslovakia-Radio Free Europe" - "Radio Free Europe just finished its daily broadcast... Long live Free Czechoslovakia". - **Hungarian:** Sign on and Sign off: "Itt a Szabad Európa Rádiója, a Szabad Magyarország Hangja". - **English:** "This is Radio Free Europe, the Voice of Free Hungary". - **Polish:** Sign on and Sign off: "Mówi Radio Wolna Europa-Głos Wolnej Polski!" - **English:** "This is Radio Free Europe, the Voice of Free Poland".

Interval-Signals: **Czech:** Czech and Slovak National Anthem (Celesta):



Hungarian: Old Hungarian folksong: "When the Cock Crows" (Taragota):



Polish: Polish patriotic song: "The day will come" (Brass instruments):



Verification by letter.

BRITISH FORCES NETWORK (Military).

Address: B.F.N., Hamburg, BAOR3.

Leading Personalities: Station Dir.: D. G. Scuse. Techn. Dir.: Major S. B. Duke, RARO.

Stations:	kc/s	m	kW	kc/s	m	kW
Hamburg	1214	246	20	Bonn	1367	219.4
Hannover	1214	-	-	FM:		
Langenberg	1214	-	-	Drachenberg	99.3	mg/s
Herford	1214	-	10	Berlin	87.6	-
Berlin	1214	-	10	Herford	96.6	-

Daily Programmes on all frequencies in **English:** D.: 05.30 (Sun.: 06.00)-23.00. (Sat. 24.00).

News: 07.00, 08.00, 12.00, 18.00, 21.00. - **Club:** 17.00. - **After you've gone:** 09.10.

As BFN shares its frequencies (1214 kc/s) with the BBC Light Programme, BFN must take the Light Programme from one hour before sunset throughout the year in order to avoid mutual interference.

Announcement: "This is the British Forces Network in Germany".

Interval-Signal: "Moonlight on the Alster" played on Celeste:



Verification by letter. Return postage not required.

Germany – Great Britain

GERMAN DEMOCRATIC REPUBLIC DEUTSCHE DEMOKRATISCHE REPUBLIK

Address: Staatliches Rundfunkkomitee, Berlin-Oberschöneweide, Nalepastrasse 18–50.

HOME SERVICE in German:

Stations in Berlin, Königswusterhausen, Potsdam, Halle, Schwerin, Erfurt, Dresden, Leipzig, Weimar.

Berlin I		Berlin III	
575 kc/s	521.7 m	611 kc/s	491.0 m
800 –	375.0 –	728 kc/s	412.1 –
833 –	360.0 –	910 –	329.7 –
1196 –	250.8 –	1016 –	295.3 –
6115 –	49.06 –	1043 –	287.6 –
7150 –	41.96 –	1079 –	278.1 –

Deutschlandsender	
185 kc/s	1622 m
782 –	383.6 –
9730 –	30.83 –

FM		FM	
88.0 mc/s	(Leipzig)	92.5 mc/s	(Berlin)
94.0 –	(Inselsberg)	89.2 –	(Schwerin)
94.6 –	(Brocken)		

Berlin I: W.: 03.30–07.10, 09.00–24.00 (Sat. 01.00). Sun.: 03.30–24.00.

News: 04.00, 04.30(W.), 05.00, 06.00, 07.00, 09.00, 11.00 (W.), 12.00, 15.00(W.), 18.00(W.), 19.00, 21.00, 23.00. *Information-Service for the newspapers* from 00.03 exc. Sat.

Berlin III: W.: 03.30–09.00, 10.40–23.50. Sat. (02.00). Sun.: 03.30–23.50. „Bericht für Hochseefischerei“ on 728 kc/s-Daily from 11.50–12.00, 23.50–24.00. *In Serbian* on Sun.: 12.15–14.00 on 910 kc/s.

News: 04.00, 05.00, 06.00, 07.00(W.), 08.45(Sun.), 11.00 (W.), 12.00(W.), 12.45(Sun.), 18.45, 20.45, 23.00.

Deutschlandsender: W.: On 185 kc/s 03.00–07.10, 09.00–24.00. (Sat. 02.00) On 782, 9730 kc/s: 03.00–09.10, 11.00–13.00, 15.00–02.55. Sun.: On 185 kc/s: 03.00–24.00. On 782, 9730 kc/s: 03.00–02.55. „Bericht für die Küsten- und Ostseefischerei“. D.: 02.55–03.00.

Announcement: “Hier ist Berlin I, der Deutschlandsender or Berlin III”.

Interval-Signal: Melody “Mit uns zieht die neue Zeit”.

GREAT BRITAIN

THE BRITISH BROADCASTING CORPORATION

Publications: “Radio Times” (weekly), “The Listener” (weekly), “BBC” (quarterly), “London Calling” (weekly), “Ici Londres” (weekly), “Hier spricht London” (weekly). **Address:** The British Broadcasting Corporation, Broadcasting House, Portland Place, London W 1.

Leading Personalities: Chairman: The Rt. Hon. Sir Alexander Cadogan, O.M., G.C.M.G., K.C.B. Vice-Chairman: Marshal of the Royal Air Force The Lord Tedder, G.C.B., L.L.D.; Director General: Sir Ian Jacob, K.B.E., C.B.; Director Administration: Air Chief Marshal Sir Norman Bottomley, K.C.B., C.I.E., D.S.O., A.F.C.; Director of Television Broadcasting: G. R. Barnes; Director of External Broadcasting: J. B. Clark, C.B.E.; Director of the Spoken Word: H. J. G. Grisewood; Director of Technical Services: H. Bishop, C.B.E.; Director of Home Sound Broadcasting: R. E. L. Wellington, C.B.E.; Controller Light Programme: K. Adam; Controller Third Programme: C. J. Morris; Controller Home Service: A. Stewart; Controller of Television Programmes: C. McGivern; Controller Entertainment (Sound): M. F. C. Standing; Controller Music: R. J. F. Howgill, C.B.E.; Editor, News: T. R. P. Hole; Controller Talks: Miss M. Somerville, O.B.E.; Chief Engineer: R. T. B. Wynn, C.B.E.; Controller Finance: T. Lochhead, C.B.E.; Controller, Staff Administration: J. H. Arkell.

HOME SERVICES: W. 06.30–23.03, Sun. 07.55–23.03.

		kc/s	m	kW
Moorside Edge	Northern	692	434	150
Whitehaven	Northern	692	434	0.25
Barrow	Northern	1484	202	0.5
Westerglen	Scottish	809	371	100
Burghead	–	809	371	100
Redmoss	–	809	371	5
Dumfries	–	809	371	0.5
Washford	Welsh	881	341	100
Penmon	–	881	341	8
Towyn	–	881	341	5
Wrexham	–	881	341	0.25
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	0.5
Start Point	West	1052	285	120
Fremington	–	1052	285	2
Clevedon	–	1457	206	20
Bartley	–	1457	206	10
Brighton	–	1457	206	1
Folkestone	–	1457	206	0.25
Hastings	–	1457	206	0.25
Droitwich	Midland	1088	276	150
Norwich	–	1088	276	7.5
Lisnagarvey	N. Ireland	1151	261	100
Londonderry	–	1151	261	0.25
Stagshaw	–	1151	261	100
Scarborough	–	1151	261	0.25

News: D.: 07.00(W.), 08.00, 13.00, 18.00, 21.00, 23.00, *Greenwich Time-Signals:* 06.00(W.), 07.00, 10.00(W.), 12.00, 19.00, 22.00.

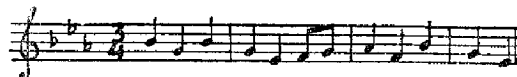
Interval-Signal: Bow Bells.

Light Programme: W. 09.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Droitwich	200	1500	400	Moorside	1214	247	58
Brookmans				Edge	1214	247	0.3
Park	1214	247	60	Plymouth	1214	247	2
Burghead	1214	247	20	Redmoss	1214	247	2
Lisnagarvey	1214	247	10	Redruth	1214	247	2
Londonderry	1214	247	0.25	Newcastle	1214	247	2
				Westerglen	1214	247	50

News: D. 09.00, 19.00, 22.00, 23.56. *Greenwich Time-Signals:* 08.00(Sun.), 09.00(W.), 13.00(Wed., Sat), 14.00 (not Sat.), 18.00, 21.00.

Interval-Signal: 1) Oranges and Lemons.



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration.

2) Harp arpeggio – a choice of six harp interludes.

Third Programme: D. 18.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Daventry	647	464	150	Dundee	1546	194	0.25/2
Edinburgh	647	464	2	Exeter	1546	194	0.25/2
Glasgow	647	464	2	Fareham	1546	194	0.25/2
Newcastle	647	464	2	Leeds	1546	194	0.25/2
Redmoss	647	464	2	Liverpool	1546	194	0.25/2
Belfast	1546	194	0.25/2	Preston	1546	194	0.25/2
Bourne-				Plymouth	1546	194	0.25/2
mouth	1546	194	0.25/2	Redruth	1546	194	0.25/2
Brighton	1546	194	0.25/2	Sheffield	1546	194	0.25/2
				Stockton	1546	194	0.25/2

FM: Daily except Friday. Experimental. Wrotham 91.4 mc/s 25 kW – Wrotham 93.8 mc/s 18 kW

FOREIGN SERVICE:

kc/s		m	kc/s		m	kc/s		m
3955	75.85		9580	31.32	GSC	15140	19.82	GSF
3975	75.47		9600	31.25	GRY	15180	19.76	GSO
5975	50.21		9625	31.17	GWO	15210	19.72	GWU
6010	49.92	GRB	9640	31.12	GVZ	15230	19.70	GWD
6035	49.71	GWS	9660	31.06	GWP	15260	19.66	GSI

Great Britain

<i>kc/s m</i>	<i>kc/s m</i>	<i>kc/s m</i>
6040 49.67 GSY	9675 31.01 GWT	15300 19.61 GWR
6050 49.59 GSA	9690 30.96 GRX	15310 19.60 GSP
6060 49.50 GSX	9700 30.93 GWY	15375 19.51
6070 49.42 GRR	9735 30.82 GWF	15400 19.48
6090 49.26 GWM	9760 30.74 MCR	15420 19.45
6110 49.10 GSL	9770 30.71 MCN	15435 19.44 GWE
6125 48.98 GWA	9825 30.53 GRH	15450 19.42 GRD
6150 48.78 GRW	9915 30.26 GRU	17700 16.92 GVP
6165 48.66 GWK	11680 25.68 GRG	17715 16.93 GRA
6170 48.62 GSZ	11700 25.64 GVW	17730 16.92 GVQ
6180 48.54 GRO	11730 25.58 GVV	17740 16.92
6195 48.43 GRN	11750 25.53 GSD	17790 16.86 GSG
7110 42.19 MCS	11770 25.49 GVV	17810 16.84 GSV
7120 42.13 GRM	11790 25.45 GWV	17860 16.80
7135 42.05 GRS	11800 25.42 GWH	17870 16.79 GRP
7150 41.96 GRT	11820 25.38 GSN	17890 16.77 GVO
7185 41.75 GRK	11840 25.34 GWQ	18025 16.64 GRQ
7200 41.67 GWZ	11860 25.30 GSE	21470 13.97 GSH
7210 41.61 GWL	11880 25.25 GRE	21530 13.93 GSJ
7230 41.49 GSW	11890 25.23 GWW	21550 13.92 GST
7250 41.38 GWI	11910 25.19 MCO	21640 13.86 GRZ
7260 41.32 GSU	11930 25.15 GVX	21675 13.84 GVR
7280 41.21 GWN	11945 25.12 MCQ	21710 13.82 GVS
7320 40.98 GRJ	11955 25.09 GVV	21750 13.79 GVT
9410 31.88 GRI	11960 25.08 MCT	25720 11.66 GSR
9510 31.55 GSB	12040 24.92 GRV	25750 11.65 GSQ
9525 31.50 GWJ	12095 24.80 GRF	25840 11.61 GSS
9550 31.41 GWB	15070 19.91 GWC	26080 11.50 GSK
9570 31.35 GWX	15110 19.85 GWG	

(The frequencies 3955, 3975, 5975, 15375, 15400, 15420, 17740, 17860 have not yet any call-letter and should be regarded as experimental.)

EUROPEAN SERVICES:

Abbreviations: E.b.R.=English by Radio; Rel.=Religious. A.C.E.=America Calling Europe.

Stations: (Medium Waves):

647 kc/s	464 m	1025 kc/s	293 m
1295	232 m	1340	224 m

The two columns below show the wavebands, which the BBC expects to use during the months from April to September and October to March. There will, however, be changes of both wavelengths and wavebands - sometimes of short notice - and listeners are advised to listen to announcements which will cover all such changes.

	<i>Oct.-March m. b.</i>	<i>April-Sept. m. b.</i>
Albanian		
16.30-16.45 News	293, 31, 41**)	293, 31, 41**)
20.00-20.15 News	31, 41	31, 41
Austrian		
17.30-17.45 Progr.	31, 41, 49	31, 41
Bulgarian		
04.30-04.45 News	293, 25, 31, 41, 49, 75	293, 25, 31, 41, 49, 75
06.00-06.15 (E.b.R. Mo.Wed.)	293, 31, 41, 49, 75	293, 31, 41, 75
11.00-11.15	16, 19, 25, 31, 41	16, 19, 25, 31
15.15-15.45	19, 25, 31, 49	16, 19, 25, 31
16.15-16.30	293, 25, 31, 41	293, 19, 25, 31, 41
20.30-21.00 News	293, 41, 49, 75**	293, 31, 49, 75**)
Czech		
05.15-05.30 News	1500, 464, 293, 232, 224, 31, 41, 49	464, 293, 232, 31, 41, 49
06.00-06.15 (E.b.R. (Tues., Thurs.)	293, 31, 41, 49, 75	293, 31, 41, 75
11.45-12.00 News	19, 25, 31, 41, 49	19, 25, 31, 41
17.45-18.15 News and Progr.	293, 25, 31, 41, 49, 75	293, 19, 25, 31, 41, 49, 75
20.15-20.30	41, 49**)	31, 41**)
22.00-22.30 Sat. only (relay C.B.C.)	232, 49	

	<i>Oct.-March m. b.</i>	<i>April-Sept. m. b.</i>
Slovak		
13.45-14.00 News and Progr.	25, 31, 41	19, 25, 31
Danish		
17.00-17.30 News and Progr.	232, 464, 41, 49	232, 41, 49
Dutch		
07.00-07.15 E.b.R. (Sun., Mo.)	464, 31, 41, 49	464, 41, 49
16.00-16.15 E.b.R. (Sat., Sun.)	224, 31, 41, 49	224, 41, 49
21.00-21.30 News and Progr.	224, 41, 49	224, 49
English		
05.00-05.15 E.b.R.	41, 49	31, 41, 49
06.00-06.30 News and Progr.	464, 41, 49, 75	464, 31, 41, 49, 75
06.45-07.00 E.b.R.	464, 31, 41, 49, 75	464, 31, 41, 49, 75
07.00-07.30 News	232, 41, 49	232, 25, 31, 41, 49
*)09.30-10.15 Rel. Service (Sun.)	25, 31	25, 31
*)10.15-10.30 Rel. Service (W.)		
11.30-11.45 E.b.R.	25, 31	25, 31
12.15-12.30 E.b.R.	25, 31, 41	25, 31, 41
12.30-12.45 News (Dictation)	25, 31, 41	25, 31, 41
12.45-13.00 News	25, 31, 41	25, 31, 41
16.15-16.45 A.C.E.	464, 224, 31, 41, 49	464, 224, 31, 41, 49
16.30-16.45 E.b.R.	232, 41, 49	232, 31, 41, 49
16.45-17.00 News (Dictation Mo. Thurs. Sat.)	232, 41, 49	232, 31, 41, 49
17.15-17.30 E.b.R.	224, 31, 41, 49	224, 31, 41, 49
17.30-17.45 E.b.R.	293, 25, 31, 41, 49	293, 25, 31, 49
17.30-18.15 News and Progr.	224, 31, 41, 49	224, 31, 41, 49
18.15-18.30 Press Review	224, 232, 293, 25, 31, 41, 49, 75	224, 232, 293, 25, 31, 41, 49, 75
18.30-19.00 News and Progr.	41, 49, 75	41, 49, 75
19.30-20.00	31, 41	31, 41
21.30-21.45 E.b.R.	232, 49, 75	232, 49, 75
21.45-22.00 News	224, 49	224, 49
Finnish		
10.00-10.30 (Sun.)	25, 31	25, 31
14.45-15.00 News	19, 25, 31, 41, 49	25, 31, 41, 49
16.00-16.30 News and Progr.	25, 31, 41, 49	25, 31, 41, 49
19.00-19.15 News	31, 41, 49	31, 41, 49
French		
06.30-06.45 News	464, 41, 49	464, 31, 41, 49
11.30-11.45 News	464, 25, 41, 75	464, 25, 41, 75
18.30-21.00 News, Progr. E.b.R.	224, 41, 49	224, 41, 49
German		
04.40-05.15 East Zone Progr.	232, 1500, 49	232, 1500, 49
06.00-07.00 News, East Zone Progr. repeat, E.b.R.	232, 1500, 49	232, 31, 41, 49
15.45-16.00 Rel. Service (Sun.)	232, 31, 41, 49	232, 31, 41, 49
16.00-16.15 News, Press Review	232, 31, 41, 49	232, 31, 41, 49
19.00-21.00 News, Press Review, Progr. (Sun.)	20.00-20.30 really C.B.C.	232, 49
21.00-21.30 News E.b.R.	232, 49, 75	232, 49, 75
23.00-23.15 News	232, 49, 75	232, 49, 75

Great Britain

	<i>Oct.-March m. b.</i>	<i>April-Sept. m. b.</i>
Greek		
05.00-05.15	293, 41, 49, 75	293, 31, 41, 49, 75
12.15-12.30	19, 25	19, 25
18.30-19.00	31, 41	25, 31
Hungarian		
04.45-05.00	464, 293, 31, 41, 49, 75	464, 293, 25, 31, 41, 49, 75
05.45-06.00 News	1500, 293, 232, 31, 41, 49	293, 232, 31, 41, 49
12.00-12.15 News	19, 25, 31, 41, 49	16, 19, 25, 31, 41
13.00-13.15 News	19, 25, 31, 41, 49	16, 19, 25, 31, 41
16.45-17.15 News and Progr.	293, 25, 31, 41, 49	293, 19, 25, 31, 41, 49
19.30-19.45 News	293, 41, 49, 75**	293, 31, 49, 75**
Italian		
06.30-06.45	293, 31, 41, 49	293, 25, 31, 41
06.45-07.00 E.b.R. (Mo. Thurs.)	293, 31, 41, 49	293, 25, 31, 41
12.30-12.45 News	19, 25	19, 25
12.45-13.00 E.b.R. (Tues. Fri.)	19, 25	19, 25
18.30-19.00 Progr.	293, 31, 49	293, 31, 41
21.00-21.45 News and Progr.	293, 41, 49, 75	293, 41, 49, 75
Norwegian		
16.45-17.00 E.b.R. (Sun. Tues. Wed. Fri.)	232, 41, 49	232, 31, 41, 49
17.30-18.00 News and Progr.	232, 41, 49	232, 41, 49
Polish		
05.30-05.45 News	224, 232, 293, 464, 1500, 31, 41, 49, 75	232, 293, 464, 31, 41, 49, 75
07.30-07.45 News	232, 25, 31, 41, 49	25, 31, 41
14.00-14.15 News	16, 19, 25, 31	19, 25, 31
16.15-16.45 A.C.E.	31, 41, 49	25, 31, 41
17.15-17.45 News and Progr.	31, 41, 49, 75	31, 41, 75
20.00-21.15 News	41, 49	25, 31, 41, 49
22.00-22.30 News and Progr.	224, 232, 31, 41, 49	224, 232, 31, 41, 49
Portuguese		
19.30-20.00 News and Progr.	41, 49	31, 41, 49
Rumanian		
04.15-04.30 News	232, 293, 25, 31, 41, 49, 75	232, 293, 25, 31, 41, 49, 75
10.45-11.00	16, 19, 25, 31	16, 19, 25, 31
15.00-15.15	19, 25, 31	19, 25, 31
16.00-16.15 News and Progr.	293, 25, 31, 41**	293, 19, 25, 31, 41**
19.00-19.30 News and Progr.	293, 41, 49, 75**	293, 25, 31, 41, 75**
21.45-22.00 News	232, 293, 41, 49, 75**	232, 293, 31, 41, 49, 75**
Russian		
03.15-03.45 News and Progr.	224, 25, 31, 41, 49, 75	25, 31, 41, 49
14.15-14.45 News and Progr.	16, 19, 25, 31, 41	19, 25, 31, 41, 49
21.15-21.45 News and Progr.	31, 41, 49	25, 31, 41, 49
00.15-00.30 News and Progr.	224, 232, 464, 1500, 31, 41, 49, 75	
Spanish		
13.15-13.30 News	25, 31, 41	19, 25, 31
13.30-13.45 E.b.R. (Mo. Tues. Thurs. Fri.)	25, 31, 41	19, 25, 31
20.00-20.45 News and Progr.	41, 49	41, 49

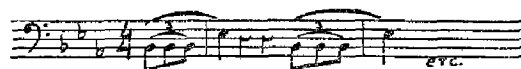
	<i>Oct.-March m. b.</i>	<i>April-Sept. m. b.</i>
Swedish		
18.30-19.00 News and Progr.	232, 41, 49	232, 41, 49
Turkish		
05.30-05.45 News	41, 49	25, 31
16.30-16.45 News and Progr.	25, 31, 41	19, 25
19.00-19.30	31, 41	31, 49
Yugoslavian		
13.30-13.45 (Sun.) News	25, 31	19, 25
16.15-16.30 E.b.R. (Mo. Wed.)	25, 49	31, 49
17.15-17.30 News	293, 25, 31, 41, 49	293, 25, 31, 41, 49
19.45-20.30 News and Progr.	293, 31, 41, 49, 75	293, 25, 31, 49, 75
20.30-20.45 Slovene	31, 41	31, 41
22.00-22.15 News and Progr.	293, 41, 49, 75	293, 41, 49, 75

*) Summer Times are 08.30-09.15 and 09.15-09.30 resp.
**) and additional short-waves

Time-Signals at the hour is radiated on one or other of the European Programmes on the long, medium or short waves normally scheduled at: 05.00, 06.00, 07.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.00, 20.00, 21.00, 22.00, 23.00.

Announcements: "This is London calling in the European Service of the B.B.C." In French: "Ici Londres". In German: "Hier ist England". In Dutch: "Hier is Londen". In Italian: "La Voce di Londra".

Interval-Signal for European Service: Morse Signal "V" (V for Victory) played on Timpani (i.e. ...-).



GENERAL OVERSEAS SERVICE:

The General Overseas Service, which operates 21 hours a day 04.30-08.00, 09.30-03.00 and can be heard at suitable listening times all over the world, is addressed to English-speaking listeners, wherever they may be. All programmes are in English. The times at which the General Overseas Service is available in various parts of the world and the appropriate wavebands are: (all times are subject to alterations):

	<i>Oct.-March m.b.</i>	<i>April-Sept. m.b.</i>
Australia		
06.00-08.00	41, 31, 25	41, 31, 25
09.30-11.15	25, 19, 16	25, 19, 16
20.00-22.15	31, 25	25, 19
N. Zealand		
06.00-08.00	41, 31, 25	41, 31, 25
09.30-11.15	31, 25, 19	31, 25, 19
20.00-22.15	41, 31, 25, 19	(41), 31, 25, 19
Japan, N. China, NW Pacific		
09.30-14.15	41, 31, 25, 19	41, 31, 25
S.E. Asia, India, Pakistan, Ceylon:		
09.30-15.15	25, 19, 16	19, 16, 13
02.00-02.15	41, 31	41, 31
09.30-15.15	25, 19, 16	19, 16, 13
15.15-18.15	41, 31, 25, 19, 16	31, 25, 19, 16
E. Africa, Egypt, Sudan, Israel, Jordan, Turkey, Lebanon:		
04.30-06.15	49, 31, 25	49, 31, 25
10.30-16.15	19, 16, 13	16, 13
16.15-21.00	49, 31, 25, 19, 16	49, 31, 25, 19, 16
Iraq, Persia:		
04.30-06.15	41, 31, 25	31
15.15-20.15	41, 31, 19	31, 19
Malta, Greece, Italy, C. Mediterranean:		
04.30-07.30	49, 31	49, 31, 25
10.45-18.15	31, 25, 19, 16	31, 25, 19, 16
18.15-21.00	49, 41, 31, 25	49, 31, 25, 19
C. and S. Africa:		
04.30-08.00	41, 31, 25, 19, 16	31, 25, 19, 16
10.30-18.15	25, 19, 16, 13	25, 19, 16, 13

	Oct.-March m.b.	April-Sept. m.b.
18.15-21.00	31, 25, 19	31, 25, 19
21.00-22.45	41, 31, 25	41, 31, 25
N. Africa:		
04.30-07.30	49, 41, 31, 25	49, 41, 31, 25
16.00-21.00	49, 41, 31, 25, 19	31, 25, 19
21.00-22.45	49, 41	41, 31
W. Africa:		
04.30-08.00	41, 31, 25, 19, 16	41, 31, 25, 19, 16
09.30-18.15	19, 16, 13	19, 16, 13
18.15-20.15	25, 19	25, 19
21.00-22.45	41, 31, 25	41, 31, 25, 19
Gibraltar, N. Mediterranean:		
04.30-07.30	49, 41, 25	41, 25
10.30-18.30	25, 19	19
18.30-22.45	41, 31, 25	41, 31, 25
Canada, U.S.A., Mexico:		
22.00-03.00	49, 31	49, 31, 25
04.30-06.15	49	49, 31
W. Indies, C. America, S. America, (N. of Amazon):		
20.00-23.15	49, 31, 25	31, 25, 19
23.45-03.00	49, 31	49, 31, 25
S. America:		
20.00-23.15	49, 31, 25, 19	31, 25, 19
23.15-03.00	49, 31, 25	49, 31, 25

News: 02.00, 04.30, 04.55, 06.00, 07.00, 11.00, 13.00, 16.00 (Sun.-Fri.), 17.00 (Sat.), 18.00, 20.00, 23.00.

Home News from Britain: 07.10, 13.10, 18.10, 23.10.

Radio Newsreel: 00.15, 06.15, 14.00, 17.15.

From the Editorials: 02.10, 04.40, 09.30.

Greenwich Time-Signals: 00.00, 02.00, 05.00, 06.00, 07.00, 08.00, 09.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00 (Mo.-Fri.), 18.00, 20.00, 21.00, 23.00. *Big Ben:* 14.00.

Announcements: "This is the General Overseas Service of the B.B.C....".

Interval-Signal: Bow Bells.

SPECIAL SERVICES:

	Oct.-March m.b.	April-Sept. m.b.
Pacific Service: (Australia, N. Zealand)		
08.00-08.45	31, 25	
06.00-07.00		41, 31, 25

Special Programmes in English

Far Eastern Service:

	Oct.-March m.b.	April-Sept. m.b.
<i>China and Japan</i>		
09.00-09.30	25, 19	25
(relayed by BFEBS)	(19, 16)	(19, 16)
11.00-11.30	31, 25, 19	25
(relayed by BFEBS)	(16)	(16)
12.00-12.45	31, 25, 19	25
(relayed by BFEBS)	(31, 25, 19)	(31, 25, 19)
<i>South East Asia</i>		
09.00-09.30	19, 16	19, 16
(relayed by BFEBS)	(49, 31, 19, 16)	(41, 31, 19, 16)
10.30-13.45	19, 16	19, 16
(relayed by BFEBS)	(41, 31, 25, 19)	(41, 31, 25, 19)
14.15-14.30	19, 16	19, 16
(relayed by BFEBS)	(19)	(19)

09.00 News from Home (Mo.-Fri. only). 09.15-09.30 *English*, 10.30-11.00 *Indonesian*, 11.00-11.30 *Japanese*, 11.30-11.45 *Vietnamese*, 11.45-12.00 *French*, 12.00-12.30 *Kuoyo*, 12.30-12.45 *Cantonese*, 12.45-13.00 *Malay*, 13.00-13.15 *English*, 13.15-13.45 *Thai*, 14.15-14.30 *Burmese*.

BRITISH FAR EASTERN BROADCASTING SERVICE

Address: P. O. Box 434, Singapore.

Stations: Singapore.

kc/s	m	kc/s	m	kc/s	m
6110	49.10	11820	25.38	15435	19.44
7120	42.13	11955	25.09	17755	16.90
7260	41.32	15300	19.61	17890	16.77
9690	30.96	15310	19.60	21720	13.81

Daily Programmes: 09.00-16.30 (Sun. 09.15-16.45, Sat. 09.15-17.15).

To North and East China, Hong-Kong, Korea and Japan: 09.00-14.00 in 25, 19 or 16 m.b.

To Southern China, Vietnam, Laos, Cambodia: 09.15-16.30 (Sun. 16.45, Sat. 17.15) in 49, 41, 31, 25, 19 or 16 m.b.

To Indonesia: 09.15-11.15 in 49, 41 or 31 m.b.

To Burma, Thailand: 13.00-16.30 (Sun. 16.45, Sat. 17.15) in 41, 25, 19 m.b.

To India, Pakistan, Ceylon: 13.00-16.30 (Sun. 16.45, Sat. 17.15) in 25, 19, 16 m.b.

Including relays of General Overseas Service, Far Eastern and Eastern Services and "London calling Asia" at 13.15-14.00 and B.F.E.B.S. programmes.

Announcement: "This is the British Far Eastern Broadcasting Service".

Casting Service :		Oct.-March	Apr.-Sept.
Eastern Service:		m.b.	m.b.
1) India, Paki- stan Ceylon	13.15-15.30 *)13.45-14.15	16, 19, 25 16, 19	19, 25 16, 19
*) Tue. and Wed. only.			
2) Arabia, Egypt, Iraq, Jordan, Lebanon, Sy- ria, Sudan	03.45-04.15 04.45-05.15 17.00-19.00 19.30-20.30	31, 41, 49 25, 31, 41 19, 25, 31 19, 25, 31	25, 31, 41, 49 41, 31, 25 19, 25, 19 19, 25, 31, 41
2) North Africa	04.45-05.15 17.00-19.00 19.30-20.30	49 31, 49 31, 49	41, 49 31 31, 49
3) Israel	16.30-17.00	16, 19, 25, 31	16, 19, 25, 31
4) Persia	10.00-10.15 15.45-16.30	16, 19 19, 25, 31	16, 19 19, 25, 31
1) Sinhalese (Tues.)	13.45-14.15*)	2) Progr. in Ara- Marathi (Wed.)	13.45-14.15 bic. News 04.00,
Hindi	14.00-14.15*)	05.00, 18.00.	
- (exc. Thurs., Sat.)	14.15-14.45*)	3) News in He- Tamil (Thurs.)	14.15-14.45*) brew: 16.30.
West Bengali (Sat.)	14.15-14.45*)	4) News in Per- Urdu (exc. Wed.)	14.45-15.15 sian: 10.00, 16.15
-	15.15-15.30		
East Bengali (Wed.)	14.45-15.15*)		
*) Relayed by B.F.E.B.S., Singapore: 13.15-14.00 "Lon- don calling Asia" in English.			

	Oct.-March m.b.	Apr.-Sept. m.b.
Service to E. Africa		
18.15-18.30 <i>English</i> (Sun. and Fri. only)	25, 19, 16	19, 16
Service to Mauritius:		
17.15-17.30 <i>French</i> and <i>Eng- lish</i> (2. Mo. of the month)	25, 19, 16	19, 16
Service to W. Africa:		
20.15-21.00 <i>English</i>	31, 25, 19	25, 19
Service to Central and South Africa:		
16.30 (Sun., Thurs., Fri.)	16	16
16.15-16.45 <i>Afrikaans</i> Sun., Thurs., Fri.		
16.15-16.30 <i>English</i>		
Service to Malta:		
17.30-17.45 (exc. Sun., Wed., Fri.) <i>Maltese</i>	25, 19	25, 19
Service to Falkland Islands:		
16.30-17.00 (Sun. only)		
<i>English</i>	16	16
Service to W. Indies:		
23.15-23.45 <i>English</i>	49, 31	49, 31, 25
North American Service:		
Canada, U.S.A., Mexico		
15.00-17.15	19, 16	19, 16
18.00-20.45 (Mo., Fri.)	31, 25, 19	25, 19
20.45-22.00	31, 25	31, 25, 19
<i>English:</i> 15.00-17.15, 18.00- 18.15, 18.25-20.45, 20.45- 22.00. <i>French:</i> 18.15-18.25.		

Great Britain - Greece

Latin American Service:	Oct.-March	Apr.-Sept.
Central America	m.b.	m.b.
Spanish: 01.00-02.30	49, 31	49, 31, 25
S. Caribbean Area		
S. America (N. of Amazon)		
Portuguese: 23.00-00.15	49, 31, 25	31, 25
Mexico		
Spanish: 01.00-02.30	49	49, 31
South America		
(S. of Amazon)		
Spanish: 23.00-00.30	49, 31, 25	31, 25
Portuguese: 23.00-00.15	49, 31, 25	31, 25
News in Spanish: 23.00, 00.00, 01.00, 02.00.		
News in Portuguese: 23.00, 00.00.		

GREECE

NATIONAL BROADCASTING INSTITUTE (Government).

Address: Ethikon Idhryma Radiophonias (NBI), 14 Mourouzi Str., Athens. - Cable: "Radiostathens".

Leading Personalities: Chairman of the Administration Board: M. Stassinopoulos. Dir. Gen.: G. Alexiadis. Dir. Administration: P. Comninos. Dir. of Progr.: O. Elytis. Gen. Secretary: A. Margaritis. Dir. Personnel: C. Anagnostopoulos. Dir. Foreign Relations: P. Petrocochino. Techn. Adviser: G. Mczevyris. Dir. Techn. Services: B. Aslanidis. Dir. Coordination and Techn. Developments: H. F. Humphreys.

HOME SERVICES (in Greek unless otherwise stated):

	kc/s	m	kW	
Athens I	728	412.0	50*)	National-Programme
Athens II	665	451.2	15	Second-Programme
Salonica	1043	287.6	2	Regional, Relay
Volo	1484	202.2	0.25	-
Patras	1511	198.5	0.25	-
Chania	1511	198.5	0.15	-
Chania	6678	44.92	0.15	Relay medium wave

*) to be increased to 150 kW during 1954.

National Programme: 05.00-13.50, 15.00-22.00. - News: 05.30, 06.45, 11.00, 12.40(W.), 18.15(W.), 20.15, 21.50(W.), 21.55(Sun.). - News in English: 05.10(W.), 05.40(Sun.), 13.00(W.). - Relays BBC: 12.15. - VOA: 17.15, 20.30. - Warnings to shipping: (Greek and English): 8.15, 13.30 (W.). - Lessons in English: 13.15 (Mo., Tues., Thurs, Fri.).

Second Programme: W.: 10.30-21.00. Sun.: 05.30-21.00. News: 19.00(W.). - Relay from Paris: 11.30(W.).

Salonica: 05.00-07.30(Sun. 08.00), 10.00-13.05(Sun. 13.00), 15.00-22.15. - News: 05.30, 12.40(W.). (Relay from Athens). - Local News: 16.50, 21.00. - Relays BBC: 12.15. - VOA: 17.15, 20.30.

Volo: 05.00-06.30(Sun. 07.30), 10.30-13.00, 17.00-22.00. News: 05.30, 12.15. (Relays from Athens).

Patras: 06.00-08.00(Sun.), 10.30-12.30, 17.30-21.45. - News: 11.00 (Relay from Athens). - Relays BBC: 12.15. - Local News: 18.30(W.), 19.30.

Chania: W.: 09.00-12.30, 16.30-21.00. Sun.: 05.30-08.00, 10.00-12.30, 16.30-21.00. - News: 11.00, 18.15(W.), 20.15 (Relay from Athens). - Local News: 12.25(W.), 20.25. - Relays VOA: 17.15.

Announcements: "Radiophonikos Stathmos... (Athinon, Thessalonikis, Volou)" or "Edho... (Athinai, Thessaloniki, Volo)" i.e.: "Radio Station... (Athens, Salonika, Volos)" or "Here is... (Athens, Salonika, Volo)". 1st Progr.: "Ethnikon Progr.". 2nd Progr.: "Dhefteron Progr.". - **Interval-Signal:** "Tsopanakos imouna", a folk song played on native flute and sheep bells.



Future-Plans: In 1954: Athens new m.w. 150 kW. Salonika new m.w. 5 kW. Chania new m.w. 5 kW s.w. low power. Rhodes (Dodecanese) m.w. 5 kW. Comotini (E.

Macedonia) m.w. 5 kW. Corfu m.w. 50 kW. Volos and Patras probably suspended.

FOREIGN SERVICE (all stations 7.5 kW).

6177 kc/s 48.56 m - 9607 kc/s 31.23 m - 15345 kc/s 19.55 m - 7300 kc/s 41.09 m - 11718 kc/s 25.60 m.

Albanian	14.30-14.45 on 7300 kc/s	Rumanian	14.00-14.15 on 7300 kc/s
Bulgarian	14.15-14.30 on 7300 kc/s	Russian	06.30-06.45 on 11718 kc/s
English	17.45-18.00 on 11718 kc/s	Serbian	13.45-14.00 on 7300 kc/s
French	17.30-17.45 on 11718 kc/s	Turkish	13.30-13.45 on 7300 kc/s
Greek	11.00-11.15 on 9607 kc/s	Dictation News in Greek	15.30-16.00(W.) 7300 kc/s
*) 12.50-13.00 on 9607 kc/s		Warning to Shippings	(Greek and English)
§) 15.00-15.30 on 7300 kc/s			08.00 on 9607 kc/s
15.45-16.00(W.) 7300 kc/s			17.15 on 11718 kc/s
19.00-19.15 on 11718 kc/s			

*) Sun. 10.45. §) National Feature Programme.

Announcements: English: "This is Radio Athens; the Voice of Greece". - French: "Ici Radio Athènes; la voix de la Grèce". - Russian: "Govoriak Atine; Slouchaite Goloc Gretzkii". - Turkish: "Burası Athina Radyosu; Yunanistan sedası". - Serbian: "Ovde Radio Atina; Slusajte Glas Grecke". - Rumanian: "Aici Radio Atena; Vocea Greciei". - Bulgarian: "Touk e Radio Atina; Glassat na Gartzia". - Albanian: "Ketu Radjo Athina; Ju flet zeri Gregis".

Interval-Signal: "Kato stou valtou ta choria" - a folk dance played on clarinet acc. on piano:



Verification by QSL-card or letter. Return postage not required.

FORCES BROADCASTING STATIONS

ATHENS

Address: Central Forces Radio Station, 3-Zakolostas Street, Athens (K).

Stations:

1300 kc/s 230.7 m 1 kW 7420 kc/s 40.45 m 1 kW 6330 - 47.30 - 5 kW

Daily Programmes: 05.00-07.30, 10.00-13.00, 15.30-22.00. - News: 12.00, 19.00.

Announcement: "Edho Athine; Kendrikos Radiophonikos Stathmos Enoplon Dhynameon Helladhos" (Here is Athens; the Central Radio Station of the Greek Armed Forces).

Interval-Signal: The main motif from the march "Greece never dies" played very slowly on trumpets:



JANNINA (R. Epiros): 7125 kc/s 42.10 m 0.3 kW.

Daily Progr.: 05.00-07.00, 10.00-14.30, 15.30-20.00.

KAVALLA: 7580 kc/s 39.58 m 0.5 kW.

Daily Progr.: 05.00-07.00, 10.30-13.00, 17.00-20.00.

KOZANI (R. Macedonia): 7950 kc/s 37.74 m 0.6 kW.

Daily Progr.: 05.00-06.00, 10.00-12.00, 17.00-21.00.

News: 05.15, 10.15. - Voice of America: 17.15-17.30, 20.30-20.45. - Verification by letter.

LARISSA: 6752 kc/s 44.43 m 0.5 kW.

Daily Progr.: 05.00-07.00, 10.00-13.00, 16.30-21.00.

MAKRONISSOS: 7030 kc/s 42.67 m 0.08 kW.

Daily Progr.: 05.00-07.00, 10.30-13.00, 16.00-20.00.

SALONIKA (R. Thessalonika): 1006 kc/s 298.2 m 1 kW. 7440 kc/s 40.35 m 0.4 kW.

Daily Progr.: W.: 05.00-07.00, 10.00-12.30, 15.00-21.00. Sun.: 04.30-06.30, 10.00-12.30, 16.00-21.30.

TRIPOLIS: 6270 kc/s 47.84 m 0.5 kW.

Daily Progr.: 05.30-06.30, 10.00-12.00, 17.00-20.00.

PRIVATE STATIONS

MEGARA: 1186 kc/s 253.0 m 0.06 kW: 18.00-20.00.
MYTILINI: 6240 kc/s 48.07 m 0.1 kW: 17.00-20.30.
R. HERAKLEION, Canea: 6480 kc/s 46.30 m 0.05 kW.
R. CHIOS, Chios: 6590 kc/s 45.42 m: 17.00-22.00.

GREEK AMERICAN RADIO STATION

Address: Voice of America, c/o American Consulate, Salonica, or Voice of America, New York 19, N.Y., U.S.A.

Station: 791 kc/s 379.2 m 50 kW: 09.30-13.50, 15.00-07.00.

09.30-13.50 Relay Radio Athens I
 15.00-17.00 - - Salonica

VOICE OF AMERICA RELAY BASE

Address: Voice of America, American Consulate, Salonika, or Voice of America, New York 19, N.Y., U.S.A.

Stations:

Medium Wave: 791 kc/s, 379.2 m, 50 kW: 09.30-13.30, 15.30-22.15.

09.30-13.30 Greek (R. Ath.) 18.45-19.00 Albanian
 15.30-17.00 Greek (R. Ath.) 19.00-19.30 Hungarian
 17.00-17.15 Bulgarian 19.30-20.00 Bulgarian
 17.15-17.30 Greek 20.00-20.30 Rumanian
 17.30-17.45 Serbo-Croat 20.30-20.45 Greek
 17.45-18.00 Rumanian 20.45-21.15 Hungarian
 18.00-18.30 Bulgarian 21.15-22.15 Greek (R. Ath.)
 18.30-18.45 Slovene

Short Wave: 35 kW, 14.15-22.00.

kc/s	m	kc/s	m	kc/s	m
5960	50.34	9530	31.48	11880	25.25
6040	49.67	11845	25.33	15315	19.59
7270	41.27				

Daily Programmes: See U.S.A.

Announcement: "This is Salonika, transmitting the programs of the Voice of America".

Verification by QSL-card.

DODECANESE ISLANDS**VOICE OF AMERICA SEABORNE RELAY BASE**

Seaborne Relay Base aboard U.S. C.G.C. "Courier", currently located at the Island of Rhodes.

Address: Voice of America, New York 19, N.Y., U.S.A.

Stations: 1259 kc/s 238.3 m 150 kW: 16.00-01.45.

Short Wave: 35 kW: 14.15-01.45.

6015 kc/s	49.88 m	9685 kc/s	30.94 m
7200 -	41.67 -	11805 -	25.41 -

Daily Programmes:

14.15 Russian	21.15 Russian
15.00 Armenian	21.45 Georgian
15.30 Ukrainian	22.00 Bulgarian
16.00 English	22.30 Albanian
16.30 Persian	22.45 Rumanian
17.30 Persian	23.15 Hungarian
18.00 Turkish	23.45 Czech-Slovak
18.15 Georgian	00.00 Armenian
18.30 Arabic	00.30 Georgian
20.30 English	00.45 Ukrainian
21.00 Georgian	01.15 Russian

Announcement: "This is the Courier, seaborne relay base of the Voice of America". - **Verification** by QSL-card.

GREENLAND**GROENLANDS RADIO (Government).**

Ministry of State, Greenland-Dept., Vangehusvej 12, Copenhagen.

GODTHAAB RADIO

Address: Grønlands Radiofoni, Godthaab. **Cable:** Editor-Greenland. - **Leading Personalities:** Chief-Editor: P. R. Brandt. Asst.-Editor: U. Kristiansen.

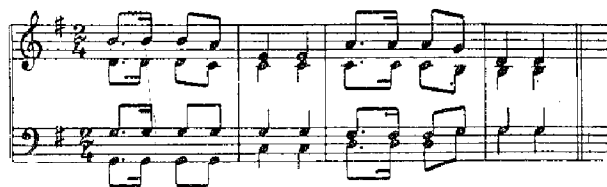
Stations: OX1.

633 kc/s 475 m 1 kW - 5964 kc/s 50.30 m 0.3 kW.

Daily Programmes: D.: 21.00-01.00. Sun. 12.00-13.00, 22.30-01.00, occasionally religious service Sun. 13.00-14.00 or 19.00-20.00. Programmes consist of Weather report, News and ship's positions in Greenlandic and Danish; language lessons, talks, outside broadcasts, music and entertainments.

Announcement: "Grønlands Radiofoni, Godthaab", in Danish and Greenlandic. -

Interval-Signal: Greenlandic melody: "Sonja Kaligpok".

**ANGMAGSSALIK RADIO**

Address: Angmagssalik Radiostation, Angmagssalik.

Stations: OZL 0.5 kW.

1500 kc/s 200 m, 7570 kc/s 39.63 m.

Daily Programmes: W: 14.00-14.50.

News, weather and ship's positions in Danish and Greenlandic - Records.

Announcement in Danish: "God Dag. Her er Angmags-salik med de danske Nyheder".

Verification by QSL-card. Reports should be sent to the resp. stations in Greenland.

HOLLAND**HOME SERVICE:**

Address: Stichting Nederlandsche Radio Unie, The Dutch Radio Union, Postbox 150, Hilversum. **Cable:** Radiounie.

The Dutch Programmes for Home are provided by the following broadcasting societies:

A.V.R.O.: Algemeene Vereeniging Radio-Omroep. Head-office: Keizersgracht 107, Amsterdam. Studio's: 's Gravelandseweg 52, Hilversum. Chairman: G. de Clercq. Secretary: H. A. Wassenbergh LL. D. Man. Dir.: D. Repko.

K.R.O.: Katholieke Radio-Omroep, Emmastraat 52, Hilversum. Chairman: Prof. Dr. J. B. Kors O. P. Secretary: L. P. N. A. Bouwman. Treasurer: C. Burger. Man. Dir.: P. A. M. Speet.

N.C.R.V.: Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum. Chairman: A. B. Roosen LL. D. Secr.-Treasurer: C. A. Keuning. Member: D. Pereboom. Man. Dir.: A. H. van de Veen LL. D.

V.A.R.A.: Vereniging van Arbeiders Radio-Amateurs, Heuvellaan 33-35, Hilversum. Chairman: J. A. W. Burger LL. D. Secr.-Treasurer: J. W. Lebon. Progr. Secr.: J. B. Broeks. Secretary: J. W. Rengelink.

V.P.R.O.: Vrijzinnig Protestantsche Radio-Omroep, 's Gravelandseweg 65, Hilversum. Chairman: Miss Dr. N. A. Bruining. Secr.-Treasurer: G. J. Ligthart. Second Secretary: Prof. Dr. C. W. Mönnich. Man. Dir.: Dr. E. D. Spelberg.

Central address for the four principal broadcasting societies: Centraal Bureau voor den Omroep in Nederland, Postbox 52, Hilversum.

Leading Personalities of De Nederlandsche Radio-Unie: Chairman: Prof. Dr. J. B. Kors O. P. Secretary: J. W. Lebon. Treasurer: G. de Clercq. Members: J. B. Broeks, Miss Dr. N. A. Bruining, G. J. Ligthart, A. B. Roosen, P. A. M. Speet, A. H. v. d. Veen LL. D., H. A. Wassenbergh LL. D.

Stations: Long and Medium Waves.

	kc/s	m	kW		kc/s	m	kW
Lopik I *)	746	402	120	Hengelo	1594	188	2.5†
Lopik II §)	1007	298	120	Hulzberg	1594	188	2.5
Hoogezand	1594	188	2.5†				

Holland

*) Hilversum I. §) Hilversum II. †) These regional transmitters give own programmes 17.00–18.00. From 16.00–17.00, 18.00–23.00 they relay the Hilversum II programme.

DAILY PROGRAMMES:

Hilversum I: 06.00–23.00. **Hilversum II:** 06.00–23.00.

News 1st and 3rd quarter.

Hilversum I: 06.00(W.), 07.00, 12.00, 17.00(W.), 17.15 (Sun.), 19.00, 22.00.

Hilversum II: 06.00(W.), 07.00, 08.30(Sun.), 12.00, 18.00 (W.), 18.30(Sun.), 22.00.

News in 2nd and 4th quarter:

Hilversum I: As Hilvers. II. Hilversum II: As Hilvers. I.

Interval-Signal: A tune from "Valerius Gedoncklanck": "O Nederland, let op u saeck, de tyt en stont is daer".



Verification by QSL-card.

FOREIGN SERVICE:

RADIO NEDERLAND WERELDOMROEP

Radio Nederland publishes monthly program bulletins in English, Spanish and Arabic, twice a year a Dutch programme schedule and once a year an Indonesian one, which will be sent to listeners on request and free of charge. **Non-commercial.**

Address: Radio Nederland, P.O.Box 137, Hilversum, The Netherlands. **Main Office:** 's/ Gravelandseweg 76, Hilversum. **Cable:** "Mundivox".

Leading Personalities: Dir. Gen.: H. J. van den Broek. Dir. of Progr. Mr. G. Sluizer. Dir. of Administration: C. J. Strop. Head of Central Program Services: J. W. Acda. Head of News Service: Dr. J. W. Niessink. Head of Dutch Service: H. J. P. J. van Eijndhoven. Head of International Service: F. Thors. Producer "Happy Station" Progr.: Edw. Startz. Head of Technical Services: V. J. de Grijs.

Stations:	kc/s	m	kW	kc/s	m	kW
Huizen 2	5980	50.17	5	Lopik 4	11730	25.58 40
Lopik 4	6025	49.79	40	Huizen 3	11950	25.10 5
Lopik 4	7210	41.61	40	Huizen 1	15220	19.71 40
Huizen 1	9590	31.28	40	Kootwijk	15425	19.45 15
Huizen 3	9745	30.78	5	Lopik 4	17775	16.88 40

Abbreviations: A=Africa. Au=Australia. C=Canada. CA=Central America. E=Europe. FE=Far East. I=India. In=Indonesia. ME=Middle East. NA=N. Africa. NAm=N. America. NAn=Netherlands Antilles. NG=New Guinea. NZ=New Zealand. Sp=Spain. Su=Surinam. SA=S. Africa. SAm=S. America.

Due to bi-annual changes in our schedules namely on the 1st of April and 1st of November it has been necessary to break up the calendar-year in three periods of which only the first one can be listed as definitive.

	Day beamed to	1/1-31/3	1/4-31/10	1/11-31/12
African				
17.30–18.00	W. SA	41–31	50–31–25	41–31
Arabic				
16.45–17.25	W. ME	41–31–19	25–19	41–31–19
20.00–20.40	W. NA	50–41–31	50–31–25	50–41–31
Dutch				
04.00–04.45	W. Au, NZ		31–25	
09.00–09.45	W. Au, NZ	50–25–19		50–25–19
09.00–10.25	Sun. In, A	50–19–16	50–19–16	50–19–16
12.30–14.00	W. NG, In	50–19–16	50–19–16	50–19–16
12.30–14.15	Sun. NG, In	50–19–16	50–19–16	50–19–16
14.05–15.30	W. NG, In	50–25–19	50–19–16	50–25–19
14.20–15.45	Sun. NG, In	50–25–19	50–19–16	50–25–19

Day beamed to 1/1-31/3 1/4-31/10 1/11-31/12

18.00–20.00	W. {A, E	50–41–31	50–31–25	50–41–31
18.00–21.00	Sun. {A, E	50–41–31	50–31–25	50–41–31
22.30–23.00	W. C	50–31	31–25	50–31
23.05–01.30	W. {NAn, Su	50–31	50–31	50–31
23.05–02.00	Sun. {NAn, Su	50–31	50–31	50–31
English				
02.30–03.10	W. NAm	50–31	50	50–31
02.30–03.10	W. Au, NZ		31	
09.45–10.25	W. Au, NZ	50–25–19		50–25–19
16.00–16.40	W. I	41–19	50–19	41–19
16.00–16.40	W. A	50–31	50–16	50–31
21.45–22.25	W. E, NAm	50–31	50–31–25	50–31
Indonesian				
13.00–14.00	D. In	19	19	19
Spanish				
01.45–02.25	W. SAm	50–31	50–31	50–31
03.15–03.55	W. CA	50–31	50–31	50–31
20.45–21.25	W. Sp	50–31	50–31	50–31
Happy Station				
10.30–12.00	Sun. FE, NZ, Au	50–25–19	50–19–16	50–25–19
16.00–17.30	Sun. I, ME	50–41–31	50–25–19	51–41–31
21.30–23.00	Sun. SAm	50–31	50–31–25	50–31
02.30–04.00	Sun. NAm	50–31	50–31	50–31

1) Mo. 13.15–15.00. Tues, Fri. and 1st and 3rd Thurs. of the month 13.00–15.00.

2) Tues., Fri. and 1st and 3rd Tues. of the month 15.05–16.50.

3) Subject to alterations.

Highlights of Dutch Programmes:

Prot. or Cath. Service (Sun.), Concertgebouw Orch. (Sun.), Netherlands Chronicle (W.), Sports (Mo.), Press Review (Tues., Thurs., Fri.), Opera Music (Tues.), Music from Europe (Mo., Wed.), Cabaret (Sat.), Program Preview (Sat.), Letterbox (Tues. fortnightly), UNO Chronicle (Tues. fortnightly), Round Table Parliament (Wed. fortnightly), Favourites of the Month (Wed., Fri.), Quiz Progr. (Sat.), Dutch Orch. (Thurs.), Talks from Abroad (Mo., Thurs.).

Highlights of English Programmes:

Window on Holland (Sat.), Program Parade (Sat.), Netherland Composers (Wed.), Review of Dutch Press (Wed. fortnightly), Close-up of Holland (Thurs. fortnightly), Music Gazette (Wed. monthly), The Cultural Scene (Fri. monthly), Letterbox (Thurs. fortnightly).

Highlights of Spanish Programmes:

Ventana de Holanda (Sat.), Revista de Programas (Sat.), Compositores holandeses (Wed.), Sumario de la prensa (Wed. fortnightly), Catalejo radiofónico (Thurs. fortnightly), Gaceta musical (Wed. monthly), En al Agora de Erasmo (Fri. monthly), La Diligencia (Thurs. fortnightly).

"Happy Station":

These programmes, produced and presented by Edward Startz, are of 90 minutes duration, consisting of: Musical entertainment, linked by polygot announcements. They are usually supplemented by features of universal interest. Special programme in Spanish and Portuguese for the Latin countries. "Mailbag" answering listeners' mail by calls to all parts of the globe. From its inception in 1928 – with exc. of the war years – 1954 marks the 26th year of the "Happy Station's" round the world broadcasting.

Announcement: Dutch: "Hier Radio Nederland in Hilversum". – English: "This is the International Service of Radio Nederland in Hilversum, Holland". – Indonesian: "Disini Hilversum, Siaran Indonesia Radio Nederland". – Spanish: "Aqui Radio Nederland de Hilversum, Holanda". – Arabic: "Huna Hilversum – al-idha'atu'l hulandiya bi'l-lughati'l-Arabiya-".

General Interval-Signal: Old Dutch folk-song called: "Merk toch hoe sterck" played on Carillon or Celesta on all frequencies.



Verification by letter or QSL-card.

Future-Plans: More powerful transmitters planned. First 100 kW-station probably ready for operation by beginning 1955.

HUNGARY

HUNGARIAN BROADCASTING SERVICE

(Government).

Address: Magyar Rádióhivatal, VIII, Bródy Sandor-u 5, Budapest. **Cable:** "Magyar-Radio".

Stations:

Medium Waves:

	kc/s	m	kW	Short Waves:	
				Budapest 100 kW.	
R. Kossuth	539	556.5	135	6248	48.02
R. Petöfi	1187	252.7	135	7220	41.55
Nyiregyhaza	1250	240.0	20 1)	9833	30.51
Magyaróvár	1340	223.8	5 1)	11910	25.19
Miscolc	1340	223.8	5 1)	15500	19.35
Pecs	1340	223.8	5 1)		

1) Relay and Regional.

HOME SERVICE in Hungarian:

539 kc/s: 03.30-07.30, 10.30-23.15. - **News:** 03.30, 05.00, 06.00, 11.00, 16.00, 19.00, 21.00, 23.00.

1187 kc/s: 05.00-10.30, 14.00-18.40, 18.45-19.30.

News: 09.00.

FOREIGN SERVICE:

European Service (S=Summer).

English: 22.00-22.15 (Thurs.) in 48, 41, 30 m.b. (S. 41, 30, 25). 22.00-22.45 in 48, 41, 30 m.b. (S. 41, 30, 25).

Finnish: 16.40-17.00 in 48, 30 m.b. (S. 30, 25).

French: 20.00-20.30 in 48, 41, 30 m.b. (S. 41, 30, 25). 22.00-22.15 (Fri.) in 48, 41, 30 m.b. (S. 41, 30, 25).

German: 17.40-18.00 (for Austria) on 556 m. 18.00-18.30 in 48, 30 m.b. (S. 30, 25).

Greek: 11.45-12.00 in 30, 19 m.b. 17.00-17.15 in 48, 30 m.b. (S. 30, 25). 18.30-18.55 in 48, 30 m.b. (S. 30, 25).

Italian: 16.00-16.40 in 48, 30 m.b. (S. 30, 25).

Russian: 17.40-18.00 in 48, 30 m.b. (S. 30, 25).

Serbian: 14.15-14.30 in 556 m.b. 18.30-19.00 on 556 m.

Slovenian: 06.15-06.35 in 252 m.b. 17.25-17.40 on 252 m.

Spanish: 19.00-19.25 in 48, 30 m.b. (S. 41, 30, 25). 22.50-23.15 in 48, 41, 30 m.b. (S. 41, 30, 25).

Turkish: 17.40-18.00 in 48, 30 m.b. (S. 30, 25).

North American Service:

English: 00.30-01.00 in 48, 41, 30 m.b. (S. 41, 30, 25). 04.00-04.30 in 48, 41, 30 m.b. (S. 41, 30, 25).

Hungarian: 01.00-01.30 in 48, 41, 30 m.b. (S. 41, 30, 25).

04.30-05.00 in 48, 41, 30 m.b. (S. 41, 30, 25).

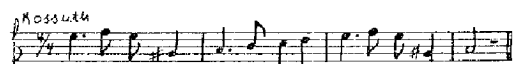
Announcements: **English:** "This is Budapest short wave radio broadcasting station. The Hungarian People's Republic speaks to you". - **Italian:** "Qui parla Budapest".

- **French:** "Ici Radio Budapest". - **For the U.S.A. and**

Canada: "This is Radio Budapest, Hungary". - **Greek:** "Edo Radiofonikos studios Budapestes".

Interval-Signal:

R. Kossuth



R. Petöfi



Verification by QSL-card or letter.

ICELAND

Address: Ríkisutvarpid, Box 1026, Reykjavik. **Cable:** "Utvarp". (Government).

Leading Personalities: Director General: Mr. Vilhjamir Th. Gislason. Director of Programmes: Mr. G. Hjörvar.

HOME SERVICE:

Reykjavik TFU 182 kc/s 1648 m 100 kW

Eidar TFE 611 - 491 - 5 -

Hoefn 665 - 451.2 - 1 - *)

Akureyri 737 - 407.1 - 5 - *)

Reykjavik TFJ 12175 - 24.64 - 7 - *)

*) Relay TFU.

09.30-10.00, 13.10-14.15, 16.30-17.30, 19.30-24.00.

News: 09.30, 13.25, 16.55, 19.00, 21.00.

On short wave to Icelanders in Scandinavia Sun.: 16.15-16.30.

Announcement: "Ut varp, Reykjavik".

Interval-Signal: Opening Signal for short wave transm.



Verification by QSL-card. Return postage requested.

RADIO STATION TFK (USA Military).

Address: Keflavik Airport, Iceland.

Station TFK 1484 kc/s 202.2 m 0.25 kW.

Daily Programmes in English: W.: 07.30-01.00, Sun.: 09.00-24.00.

Announcement: "This is TFK Keflavik Airport Iceland".

ITALY

RAI - RADIO ITALIANA (Societa-Concessionaria)

Address: Via Botteghe Oscure, 54, Roma. **Cable:** Raidirro, Via Arsenale, 21, Torino. **Cable:** Raidirto.

Leading Personalities: Pres.: Dott. C. Ridomi. Vice-Presidents: Avv. A. Paces and Prof. Ing. A. Carrelli.

Member of the Board Dir. Gen.: S. Sernesi. Vice Dir.

Gen.: Dott. M. Bernardi. Dir. of Administr.: Dott. B.

Vasari. Chief Accountant: M. Giordano. Dir. of Progr.

(Radio): M. G. Razzi. Subdir. of Progr.: M. M. Labroca.

Man. Television: Dott. S. Pugliese. Techn. Dir. (Radio):

Ing. G. Castelnuovo. Sub Techn. Dir.: Ing. E. Christofaro

and Ing. L. Sponzilli. Techn. Dir. Television: Ing. S.

Bertolotti. Dir. Foreign Relations: Dott. G. Zaffrani.

Dir. Radio News: Dott. A. Piccone Stella. Gen. Inspector:

Ing. R. Donati. Gen. Secretary: Avv. S. Cilenti. Vice

Gen. Secretaries: Rag. A. Stella (Roma) and Avv. E.

Turco (Torino). Dir. of Propaganda: Dott. M. Severati.

Directors "Radio Corriere": Ing. V. Malinverni, Dott. E.

Bertuetti.

HOME SERVICES in Italian:

National Programme: W.: 06.00-08.00, 10.00-13.30, 15.30

-23.00. Sun.: 06.15-10.00, 11.00-23.00. **News:** 06.00 (W.),

07.00, 12.00, 13.00, 19.30, 22.15, 23.00.

Main Stations: kc/s m kW

Caltanissetta I 566 530.0 10 Milano I 899 333.7 150

Cagliari I 1061 282.8 5

Synchronized Stations:

656 kc/s 457.3 m: Bolzano I (20 kW), Firenze I (80),

Napoli I (80), Torino I (35), Venezia I (10).

1331 kc/s 225.4 m: Bari I (20 kW), Bologna I (25),

Catania I (0.25), Genova I (50), Messina I (5), Palermo I

(0.25), Pescara I (25), Roma I (80).

Local and Relay Stations:

1484 kc/s 202.2 m: La Spezia I (0.25 kW), Verona I (1).

1578 - 190.1 - Ancona I (0.04 kW), Brindisi I (0.04),

Catanzaro I (0.04), Cosenza I (0.04), Lecce I (0.04),

Perugia (0.04), Taranto I (0.04), Terni I (0.04).

Second Programme: W.: 08.00-10.00, 11.15-22.30. Sun.:

07.30-11.00, 12.00-22.30. **News:** 12.30(W.), 14.00(W.),

17.00(W.), 19.00.

Main Station: 845 kc/s 355.0 m 150 kW Roma II.

Italy

Synchronized Stations:

1034 kc/s 290.1 m: Genova 2 (2 kW), Milano 2 (8), Napoli 2 (5), Pescara 2, Venezia 2 (1).
1115 kc/s 269.1 m: Aosta 2, Bari 2 (40 kW), Bologna 2 (50), Pisa 2 (10).

1448 kc/s 207.2 m: Ancona 2 (5 kW), Catania 2 (5), Firenze 2 (5), Palermo 2 (10), Sanremo 2 (5), Sassari 2, Torino 2 (20).

Local and Relay Stations:

1484 kc/s 202.2 m: Bolzano 2 (2 kW), Cagliari 2 (0.25), Trieste 2, Udine 2 (1).

1578 kc/s 190.1 m: Alessandria 2, Aquila 2, Arezzo 2, Ascoli Piceno 2, Biella 2, Bressanone 2, Cuneo 2, Foggia 2, Merano 2, Potenza 2, Reggio-Cal. 2, Salerno 2, Savona 2, Siena 2, Trento 2 (all 0.04 kW), Verona 2 (0.1), Vicenza 2 (0.04).

News in German: Sun.: 10.00, 11.15, 19.30, W.: 06.30, 11.30, 17.30 (Bolzano 2, Bressanone, Merano); W.: 13.45 (Bolzano 1).

Short Wave: 6260 kc/s 47.92 m 5 kW Palermo.

FM	mc/s	kW		mc/s	kW
89.9	3	Monte Penice II	93.7	3	Milano II
94.9	3	Genova II	95.9	3	Torino II

Third Programme: W.: 18.30-23.00. Sun.: 14.30-17.30, 18.30-23.00. **News:** 18.45.

Synchronized Stations:

1367 kc/s 219.5 m: Bari 3 (1 kW), Bologna 3 (1), Bolzano 3 (0.5), Catania 3 (0.25), Firenze 3 (1), Genova 3 (0.25), Milano 3 (5), Napoli 3 (1), Palermo 3 (0.25), Roma 3 (5), Torino 3 (5), Venezia 3 (5), Verona 3 (0.1).

Relay Stations:

1578 kc/s 190.1 m Livorno 3 (0.1), Pisa 3 (0.1).

Short Waves:

3930 kc/s 76.34 m 25 kW Roma o.c.

6240 - 48.08 - 5 - Milano o.c.

FM:	mc/s	kW		mc/s	kW
90.9	0.05	Bologna	94.9	0.05	Venezia
91.7	3	Monte Penice	96.9	3	Genova
92.9	0.05	Trieste	98.9	3	Roma
93.9	3	Firenze	98.9	3	Torino
94.5	1	Napoli	99.9	3	Milano

Night Programme: 845 kc/s 355.0 m 150 kW Roma 2: D.: 22.35-06.00. **News:** In Italian: 00.00, 01.00, 02.00, 03.00, 04.00, 05.00. In English, French and German: 23.30, 00.30, 01.30, 02.30, 03.30, 04.30.

Announcement: "RAI - Radio Italiana stazioni del (Programma Nazionale - Secondo Programma - Terzo Programma)". **Night Programme:** "RAI - Radio Italiana, stazioni di Roma 2 che trasmette sulla lunghezza d'onda di m. 355 pari a kc/s 845 Notturmo dall'Italia".

Interval-Signal: Bird chirping. Verification by QSL-card.

FOREIGN SERVICE (Radio Roma): 100/60/50 kW.

kc/s	m	kc/s	m	kc/s	m
6010	49.92	9630	31.15	15320	19.58
6210	48.31	9710	30.90	15400	19.48
7290	41.15	9780	30.67	17770	16.88
7300	41.10	11810	25.40	17800	16.85
9420	31.85	11900	25.21	21560	13.91
9570	31.35	15120	19.84		

EUROPEAN SERVICE Nov.-Febr.

Albanian	kc/s	Dutch	kc/s
13.10-13.30	6010, 7290	17.50-18.10	6010, 9570
18.45-19.05	6010, 9570		(Tues, Sat.)

Bulgarian	kc/s	English	kc/s
20.50-21.10	7290, 11900, 15320	18.30-19.05	7290, 11900, 15320

Czech	kc/s	Esperanto	kc/s
13.10-13.30	9570, 9630, 11900	17.50-18.10	6010, 9570
21.40-22.00	6010, 9570		(Wed., Fri.)

Danish/Norwegian	kc/s	French	kc/s
17.30-17.50	7290, 11900, 15320 (exc. Sun.)	17.50-18.10	6010, 9570
			(Sun. only)
		18.10-18.45	6010, 9570

German	kc/s
11.55-12.15	6010, 9570
17.30-17.50	(Austria)
	6010, 9570
20.10-20.40	6010, 9570

Greek	kc/s
19.40-20.10	6010, 9570

Hungarian	kc/s
13.50-14.10	6010, 7290
22.00-22.20	6010, 9570

Italian	kc/s
18.10-18.30	7290, 11900, 15320 (Sun.)

Lithuanian	kc/s
20.30-20.50	7290, 11900, 15320

Polish	kc/s
13.30-13.50	9570, 9630, 11900
20.10-20.30	7290, 11900, 15320

Portuguese	kc/s
21.30-21.55	7290, 11900, 15320

Rumanian	kc/s
11.15-11.35	6010, 9570
21.00-21.20	6010, 9570

Russian	kc/s
13.50-14.10	9570, 9630, 11900
21.10-21.30	7290, 11900, 15320

	kc/s
03.20-03.40	6210, 7290, 9570, 9710, 9780

OVERSEAS SERVICE

	<i>November-February m. bands</i>	<i>March-April Sept.-Oct. m. bands</i>	<i>May-August m. bands</i>
06.30-06.45 Arabic	31-25-19-16	31-25-19-16	31-25-19-16
06.50-07.45 Italian to Australia N.Z.	19-16-13	19-16-13	19-16-13
07.50-08.05 Italian	41-25-19-16	31-25-19-16	31-25-19-16
08.05-08.55 Italian	-13	-13	-13
09.00-09.35 English for Pacific Area	19-16-13	25-19-16	25-19-16
For N. & E. Afr.	49-41	25-19	19-16
09.00 F. 09.25 E.	31-25-19-16	25-19	25-19
09.40-10.10 French, Indonesian	-13	25-19	25-19
10.15-11.10 Arabic	25-13	25-19	25-19
10.15-11.10 To Far East:	19-16	25-19-16	19-16-13
10.15 Japanese,			
10.40 English,			
10.55 Chinese			
11.15-12.15 Italian to Austr.	25-19-16	25-19-16	25-19-16
14.15-14.30 Hindi to India (W. only)	49-41-31-25	25-19-16	19-16-13
14.30-14.45 Urdu to Pakistan (W. only)	49-41-31-25	19-16	19-16
*14.50-15.40 Italian	49-31-19-16	31-25-19-16	31-25-19-16
*15.45-16.00 English to S. Afr.	25-19	16-13	19-13
*15.50-16.20 Italian to Afr.	41-31-25	31-25-19	25-19-16
*16.05-16.20 Persian to Iran & Afghanistan	49-31	25-19	25-19
16.20-17.25 Italian to Africa	49-41-31-25	25-19	25-19
19.05-19.15 Sport (Italian)	49-41-31-25	25-19	25-19
19.15-19.40 Arabic	49-41-31-25	31-25	25-19
22.30-00.10 Italian to Am.	49-41-31-25	49-31-25	31-25-19
00.15-00.35 Portuguese to Brazil	49-31-25	31-25	31-25
00.15-00.35 English to N. Am.	41-31	31-25	31-25
00.35-00.55 Spanish to S. Am.	49-31-25	49-31-25	31-25-19
00.35-00.55 French to Canada	41-31	31-25	31-25
01.00-02.25 Italian to N. Am.	49-41-31	49-31-25	31-25-19
02.30-02.50 Spanish to C. Am.	49-31	49-31-25	31-25-19
02.30-02.50 English to N. Am.	41-31	49-41-31-25	31-25-19
02.55-03.10 Italian to Am.	49-41-31	41-31-25	41-31-25-19

Serbian	kc/s
21.20-21.40	6010, 9570

Slovak	kc/s
13.30-13.50	6010, 7290
20.40-21.00	6010, 9570

Slovene	kc/s
11.35-11.55	6010, 9570

Spanish	kc/s
21.55-22.20	7290, 11900, 15320

Swedish/Finnish	kc/s
18.10-18.30	7290, 11900, 15320 (esc. Sun.)

Turkish	kc/s
19.40-20.10	7290, 11900, 15320

Ukrainian	kc/s
17.50-18.10	7290, 11900, 15320

Nato (in English and Fr.)	kc/s
17.50-18.10	6010, 9570
	(Thurs. only)

Radio-Problems	kc/s
(in English and French)	
17.30-17.50	7290, 11900, 15320 (Sun. only)

Unesco (in French and German)	kc/s
	(Mo. only)

OVERSEAS SERVICE (*forsat*)

* Sun. 14.20-16.00 Dictation news and Sportnews in 31, 25, 19, 16, 13 m.b. 16.10-17.25 to Africa, Near East, Centr. America in 49, 41, 31, 25 m.b. - Abbreviations: Afr.=Africa, Am.=America, Austr.=Australia, E.=English, F.=French.

Announcement in Italian: "Qui la Radio Italiana che vi parla da Roma, che trasmette sulla lunghezza d'onda di... programma per...", and in the languages of the countries to which the transmissions is dedicated. - Verification by QSL-card.

AUTONOME STATION: Trieste 818 kc/s 366.7 m 10 kW. W.: 06.00-08.00, 10.30-14.00, 16.30-23.00. Sun.: 07.00-23.00.

LUXEMBOURG

Address: Radio Luxembourg, Compagnie Luxembourgeoise de Radiodiffusion, Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg.

Leading Personalities: Pres.: E. Reuter. Gen. Man.: René-Louis Peulvey. Asst. Gen. Man.: M. Felten. Progr. Man.: A. D. la Chartre. Man. Musical Dept.: H. Pensis.

Stations: R. Luxembourg I and II

I 233 kc/s 1287 m 150 kW 6090 kc/s 49.26 m 50 kW

II 1439 kc/s 208 m 150 kW 15350 kc/s 19.54 m 50 kW

HOME SERVICE:

233 kc/s and 6090 kc/s: *In French:* Sun.: 06.00-23.00. *In French, German:* Mo.-Fri.: 05.40-14.30, 15.45-23.00. Sat.: 05.40-23.00.

News: (French) 05.40(W.), 06.00(S.), 06.45(W.), 07.00(S.), 08.00, 09.00, 10.00(W.), 11.00(W.), 12.00, 13.00, 14.00(W.), 17.00(W.), 18.15, 19.00, 20.00, 21.00(W.), 22.00(W.).

1439 kc/s: *Flemish:* D.: 05.30(Sun. 06.00)-10.00, 11.00-13.00. *Luxembourgian:* D.: 17.00-18.00. *English:* D.: 18.00-23.00. *News in Flemish:* 05.45(W.), 06.45, 08.00, 09.00, 10.00, 11.50, 13.00.

Announcements: *French:* "Ici Radio Luxembourg". *English:* "Here Radio Luxembourg". *Flemish:* "Hier is Radio Luxembourg". *German:* "Hier ist Radio Luxembourg".

Interval-Signal: Melody played on piano: A Luxembourgian popular song.



Verification by QSL-letter. Return postage not required.

MONACO (Commercial)

Address: Radio Monte Carlo, 16 Boulevard Princesse Charlotte, Monte Carlo. **Cable:** Radiocarolo.

Leading Personalities: Chairman of Board of Directors: J. Reymond. Director General: Robert Schick. Commercial Dir.: R. H. Dogor. Chief Eng.: M. Fromaget. Dir. of Programmes: F. Fels. Administrator: Fr. de La Panouse. Chief of Information: Ph. Fontana.

Stations: Radio Monte Carlo.

1466 kc/s 205 m 120 kW -

3AM3 7349 kc/s 40.82 m30 kW -

3AM4 6035 kc/s 49.71 m 30 kW.

Daily Programmes in French: W.: 06.00-08.30, 11.00-22.30. Sun.: 06.00-22.30. *News:* 06.00, 07.00 (Press Review), 08.00, 09.00(Sun.), 10.00(Sun.), 11.00, 12.00, 13.00, 14.00(W.), 16.00(W.), 17.00, 18.00, 18.55, 21.00.

"Disque du Dimanche": Sun. 09.02, 13.57. "Les Disques que vous aimez": Mo. 20.45. "Reine d'un jour": Thurs. 19.00. "Cent Francs par Seconde": Wedn. 20.30. "Ecran Magazine": Thurs. 19.30. "La Rue au Chansons": Fri. 20.15. "Concert Symphonique": Sat. 20.30.

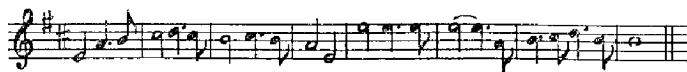
In Italian: Wedn. 08.10-08.25, 17.05-17.20. Fri. 08.10-08.25

In English: Mo. 22.05-22.35 (Hour of Revival). Wedn. 22.05-23.05 (Baltimore Gospel Tabernacle Progr.). Fri. 22.30-23.00 (Back to the Bible). Thurs. 22.30-23.00 (Hour of Decision). *In Spanish:* Fri. 22.10-22.25. (Radio Reveil).

Announcement: "Ici Monte Carlo", longueurs d'ondes: 205 m en ondes moyennes et 49 m.71 et 40 m.82 en ondes courtes. Bonjour Mesdames, Bonjour Mesdemoiselles,

Bonjour Messieurs, nos émissions commencent, en voici le programme". Some programmes are announced in Italian, English and Spanish.

Interval-Signal: Before and after every transmission period 06.00, 11.00 and 18.00 "L'Hymne Monegasque" is played.



Verification by QSL-cards and letter.

NORWAY

NORSK RIKSKRINGKASTING (Government).

Address: Suhmsgaten 23, Oslo. **Cable:** Studio, Oslo.

Leading Personalities: Dir.: K. Fostervoll. Dir. of Progr.: Th. Diesen. Dir. of Administr.: K. Tvedt. Chief Eng.: Chr. Vibe. Chief Secr.: O. Lid. Studio-Controller: A. Klæbo. Programme-Editors: Toralf Øksnevad, Carl C. Lyche, Fr. Chr. Wildhagen, L. Rustad. Chief of Music Dept.: H. Kramm. Chief of Plays: H. Heiberg. Editor "Programbladet": E. Strand. Chief of Short-wave Progr.: Gunnar Nygaard.

HOME SERVICE:

In Norwegian: 05.45-08.00(Sat. 08.20), 10.20-13.00, 15.30 (Sat. 15.00)-22.00. *Sun.:* 07.15-14.45, 15.15-22.15.

	kc/s	m	kW
Tromsø	155	1935.0	10
Oslo	218	1376.0	100
Hamar	520	576.9	1
Vigra	629	477.0	100
Bodø	674	445.1	10
Finnmark	701	428.0	20
Bergen I	890	337.1	20
Kristiansand	890	337.1	20
Trøndelag	890	337.1	20
Bergen II	1115	269.1	1
Fåberg	1115	269.1	0.25
Lista	1115	269.1	0.3
Namsos	1115	269.1	1
Notodden	1115	269.1	1
Röros	1115	269.1	0.25
Arendal	1115	269.0	0.25
Sulitjelma	1115	269.0	0.025
Stavanger	1313	228.5	100
Geilo	1466	204.6	0.25
Mo i Rana	1466	204.6	0.3
Narvik	1466	204.6	1
Odda	1466	204.6	0.25
Porsgrunn	1466	204.6	1
Svalbard	1466	204.6	0.25
Mosjøen	1484	202.2	0.025
Rjukan	1484	202.2*	0.25
Fredrikstad	1578	190.1	10

News: 07.00(W.), 08.00(S.), 12.00, 18.05, 21.10.

Weather reports: 05.45, 07.00(W.), 08.00(S.), 12.00, 18.00, 21.00.

Bergen II Local: W.: 11.00-11.30. D.: 16.00-17.30.

Tromsø in Samisk on 155 and 7210 kc/s: Tues., Fri. 13.10-13.25.

State Network Programme is relayed by Tromsø short wave transmitter for Norwegian seamen in the North Atlantic and the North Sea: On 9550 kc/s: Mo.-Fri. 05.45-08.00(Sat. 08.20), 10.20-13.00. Sun.: 07.15-14.45. - On 7210 kc/s: W.: 15.30-22.00. Sun.: 15.15-22.15.

Bodø, Tromsø, Vadsø Local: Tues. 13.00-13.10, Wedn., Thurs., Sat. 13.00-13.15.

Announcements: "Dette er Norsk Rikskringkasting". *In Samisk:* "Dat la Norga Rikaradio, Tromsast. Di gulla-betet Samgial programa".

Interval-Signal:



Norway - Poland

FOREIGN SERVICE:

Frequencies (5/10/100 kW) that may be used during the year:

Call	kc/s	m	Loca- tion	Call	kc/s	m	Loca- tion
LKF	1578	190.1	F	LKQ	11735	25.56	F
LKJ	6130	48.94	T	LLK	11850	25.32	F
LLI	6185	48.50	T	LKV	15170	19.78	F
LLS	7210	41.61	T	LLM	15175	19.77	F
LLR	7240	41.44	T	LKW	17755	16.90	F
LKJ2	9540	31.45	T	LLN	17825	16.83	F
LLD	9550	31.41	T	LLP	21670	13.85	O
LLG	9610	31.22	F	LLQ	21730	13.81	O
LLH	9645	31.10	F				

(F=Fredrikstad; T=Tromsø; O=Oslo).

Europe, Africa, Mid-Atlantic Ocean:

W.: 06.30-07.35	State Network Progr. 7210, 9610, 11735, 21670.
Sun.: 07.15-09.55	State Network Progr. 7210, 9610, 11735, 21670.
D.: 16.00-17.00	For Norwegians abroad 11735, 15175, 17825, 21670.
Sun.: 17.00-17.20	"Norway this Week" 11735, 15175, 17825, 21670.
Sat.: 17.00-18.00	State Network Progr. 9610, 11735, 15175, 21670.
D.: 18.00-22.00	State Network Progr. 9610, 11735, 15175, 21670.
D.: 20.00-20.45	For Norwegians abroad 21670.

Far East, Japan, New Zealand, East Australia:

D.: 11.00-12.00	For Norwegians abroad 11735, 15175, 17825, 21670.
W.: 12.00-12.20	State Network Progr. 11735, 15175, 17825, 21670.
Sun.: 12.00-12.20	"Norway this Week" 11735, 15175, 17825, 21670.

Indian Ocean, East Australia:

D.: 13.00-14.00	For Norwegians abroad 9610, 11735, 15175, 21670.
Sun.: 14.00-14.20	"Norway this Week" 9610, 11735, 15175, 21670.

South America, South Atlantic Ocean:

D.: 23.00-24.00	For Norwegians abroad 7210, 9610, 11735, 1578.
Mo.: 24.00-00.20	"Norway this Week" 7210, 9610, 11735, 1578.

North America, North Atlantic Ocean:

D.: 01.00-02.00	For Norwegians abroad 6130, 7210, 9610, 1578.
Mo.: 02.00-02.20	"Norway this Week" 6130, 7210, 9610, 1578.

North American W. C., Pacific, E. African Waters:

D.: 04.00-05.00	For Norwegians abroad 6130, 7210, 9610, 1578.
Mo.: 05.00-05.20	"Norway this Week" 6130, 7210, 9610, 1578.

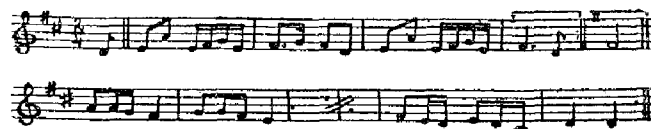
Weatherreports to North- and Mid-Atlantic:

W.: 10.25-10.35 on 9610, 11850. 22.55-23.00 on 7210, 9610, 11735, 1578. 00.55-01.00 on 6130, 7210, 9610, 1578. Tromsø short wave transmitter broadcasts the entire State Network Progr.: in the morning on 9550 kc and in the afternoon on 7210 kc/s.

Programmes for Norwegians abroad: Sun.: Religious Service, Parliament News, Local News. Mo.: Sport News. Tues.: Answers to letters from listeners, Local News. Wed.: Request Progr. (music), Local News. Tues.: World News, Local News. Fri.: Missionary News, Local News. Sat.: Letter Box, Local News.

Announcement: "This is R. Norway with its short wave service for Norwegians abroad".

Interval-Signals: Every s.w. transmission to Norwegians abroad is introduced by a Norwegian folk melody from Hallingdal:



Message to our English speaking listeners:

In our programme in English every Sunday, "Norway this Week", we shall try to give you an impression of life in Norway during this Autumn and Winter. In our daily programmes for "Norwegians abroad" we have a "Letter Box" on Wednesdays and Saturdays, when we play listeners' request music; it is broadcast in Norwegian and English the last 30 minutes of the one hour transmission. On the other weekdays, except on Tuesdays, the last 15 minutes of the programme for Norwegians abroad will consist of Norwegian music or music by Norwegian artists. This music is introduced in English as well as in Norwegian. We are always grateful for comments on the transmissions, and our postal address is *Radio Norway, Oslo, Norway*. Reports are answered by QSL-card. **Future-Plans:** A new l.w. station 218 kc/s, 200 kW and two FM-stations will commence broadcasting in the beginning of 1954.

POLAND

POLSKIE RADIO (Government).

Address: Komitet do Spraw Radiofonii "Polskie Radio", Aleja Stalino 21, Warsaw. **Cable:** Polskie Radio Warsaw. **Leading Personality:** Pres.: R. Gadowski.

HOME SERVICE:

Stations: Medium Waves:

	kc/s	m	kW		kc/s	m
Warsaw	227	1322	200*)	Lódz	1304	230.0§)
Warsaw	737	407.1	50§)	Wrocław	1367	219.5§)
Stalino-grad	1079	278.0	50§)	Bydgoszcz	1367	219.5§)
Poznan	1205	249.0	§)	Gdansk	1484	202.2§)
Szczecin	1259	238.3	100§)	Cracow	1502	199.7§)

*) Progr. I Central. §) Progr. II National.

Programme I (Central Programme): W.: 04.00-08.50, 09.55-12.55, 14.25-22.10. Sun.: 05.00-11.15, 13.00-22.40. **News:** 04.05, 05.00, 06.00, 06.55, 11.04, 15.00, 19.00, 22.00. **Weather report:** 05.00, 19.00.

Programme II (National Programme): W.: 04.00-07.55, 13.00-23.00. Sun.: 05.00-23.00. **News:** 04.05, 05.30, 06.55, 16.00, 20.00, 22.50. **Weather report:** 06.50, 19.58.

FOREIGN SERVICE:

Stations: Warsaw (227 kc/s=200 kW, 818 kc/s=100 kW, s.w.=7.5/100 kW).

kc/s	m	kc/s	m	kc/s	m
227	1322	6195	48.43	9555	31.40
818	366.7	7125	42.11	9570	31.35
5955	50.38	7145	41.99	9585	31.30
5975	50.21	7175	41.81	9600	31.25
5995	50.04	7205	41.64	9615	31.20
6025	49.79	7255	41.36	11740	25.55

EUROPEAN SERVICE:

		Finnish
Danish		04.00-04.30 49-41-367 m
05.30-06.00	49-41-367 m	16.00-16.30 49-41-367 m
20.30-21.00	49-41 m	17.30-18.00 49-41 m
21.30-22.00	367 m	
English		French
06.30-07.00	49-41-367 m	05.00-05.30 49-41 m
17.00-17.30	49-41 m	06.00-06.30 49-41 m
19.00-19.30	49-41 m	11.45-12.00 41-31
19.30-20.00	49-41-367 m	13.45-14.15 41-31 m
20.00-20.30	49-41 m	17.00-17.30 49-41 m
22.00-22.30	367 m	17.30-18.00 49-41-367 m
22.30-23.00	49-41 m	20.00-20.30 367 m
		20.30-21.00 49-41 m
		22.00-22.30 49-41 m

German

04.30-04.55 49-41 m
05.00-05.30 49-41-367 m
17.00-17.30 49-41-367 m
18.30-19.00 49-41-367 m
19.30-20.00 49-41 m
21.00-21.30 49-41 m
22.45-23.15 1322 m*
23.15-23.45 1322 m**
*Mo.-Fri. only, Sat.,
**Sun. only.

Greek

03.30-04.00 367 m
04.00-04.30 49-41 m
11.30-12.00 31 m
13.00-13.30 41-31 m
14.30-15.00 49-41-31 m
15.30-16.00 49-41-367 m
18.00-18.30 49-41 m
22.30-23.00 49-41 m

Italian

14.00-14.30 41-31 m
18.00-18.30 49-41-367 m
22.00-22.30 49-41 m
22.30-23.00 367 m

Macedonian

15.00-15.30 49-41 m
16.00-16.30 49-41 m
20.00-20.30 49-41 m

Polish

05.30-06.00 49-41 m
16.30-17.00 41-367 m
18.00-18.30 49-41 m
19.00-19.30 49-41 m
20.30-21.00 367 m

Russian

11.15-11.45 41-31 m

Serbo-Croatian

04.30-05.00 49-41-367 m
10.15-11.15 41-31 m
12.30-13.00 41-31 m

15.00-15.30 49-41 m
16.30-17.00 49-41 m
20.00-20.30 49-41 m
21.00-21.30 49-41-367 m
00.00-00.30 367 m

Spanish

13.30-14.00 41-31 m
18.30-19.00 49-41 m
20.30-21.00 49-41 m
21.00-21.30 49-41 m
23.00-24.00 367 m

Swedish

06.00-06.30 49-41-367
17.30-18.00 49-41 m
21.00-21.30 49-41-367 m
22.15-22.45 1322 m*
22.45-23.15 1322 m**

Mo.-Fri. only*

Sat., Sun. only.**

Yiddish

21.30-21.55 49-41 m

Concerts:

Every Wed. 14.30-15.30 and
Sat. 15.30-16.30 a concert
entitled "Music the common
language of all people" is
broadcast on 41 and 31 m.
D.: 06.30-07.00 and 22.00-
22.30 "Listeners Requests".

**NORTH AMERICAN
SERVICE**

English

11.00-11.30 31 m
12.15-13.15 25 m
22.15-23.00 49 m
00.45-01.15 49 m
04.15-04.45 49 m
05.30-06.00 49 m

Polish

21.45-22.15 49 m
04.45-05.15 49 m

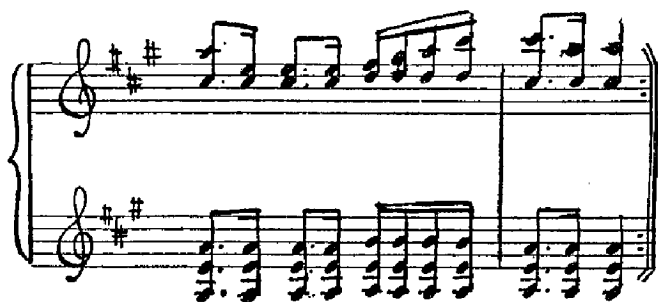
Yiddish

05.15-05.30 49 m

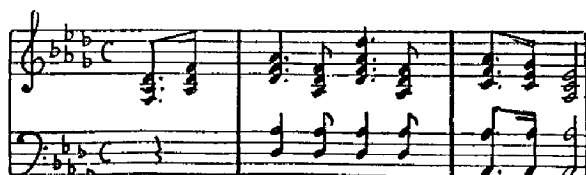
Announcement: In *Polish*: "Mowi Warszawa". In *French*:
"Ici Varsovie". In *English*: "This is Warsaw calling". The
same in the other language-broadcast.

Interval-Signal: Warsaw National.

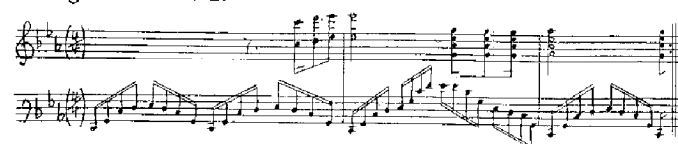
Warsaw 1.



Interval-Signal: Warsaw 2: First movement of Polonaise
in A flat major by Chopin.



Foreign Service: I.



Revolutionary Etude by Chopin.

Verification by QSL-card. Return postage not required.

PORTUGAL

EMISSORA NACIONAL DE RADIODIFUSAO

(Government)

Address: Radio Nacional, Rua do Quelhas, 2, Lisboa.

Cable: Emissora.

Leading Personalities: President: António de Eça de
Queiroz. Techn. Dir.: Eng. Manuel Bivar. Administr.
Dir.: Dr. Armando Stichini Villela. Production Man.:
Eng. J. L. da Silva Dias. Transmitting Dept.: Eng. Fer-
nando da Cunha de Eça. Studios Dept.: Eng. H. L. Ta-
vares.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Lisboa I	665	451	50	Atlantico			
Lisboa II	719	417	15	Regional	1214	247	2
Porto I	755	397	10	Madeira	1529	196	1
Porto II	1562	192	10	Açores Reg.	4845	61.92	1
Coimbra	1367	219	1	Lisboa	6360	47.17	10
Faro	1358	221	1	Açores Reg.	11090	27.05	1
Guarda	1448	207	1	Lisboa	11964	25.09	10

Observations:

During the summer (1st sunday of April to 1st sunday of
Oct.) the "Home Service" is advanced one hour, according
to the "Local Summertime". The "Overseas Service" con-
tinues on G.M.T.

DAILY PROGRAMMES:

Lisboa I: W.: 07.30-10.00, 12.00-14.00, 18.30-24.00. Sun.:
08.30-24.00. News: 09.00, 13.00, 19.00, 21.00, 23.45.

Lisboa II: D.: 21.00-24.00 (during football-season, Sept.
to July, 15.45-24.00 on Sun.).

Porto I: (N. Nacional), **Porto II, Coimbra** (Centro Reg-
ional): W.: 08.00-10.00, 12.00-14.00, 18.30-24.00. Sun.:
08.00-24.00.

Faro (S. Regional): 12.00-14.00, 18.30-24.00. Sun.: 11.00
-24.00.

Guarda (Regional): W.: 13.00-14.00, 20.00-24.00. Sun.:
11.00-24.00.

Atlantic: W.: 12.00-14.00, Sun.: 11.00-17.15 in 25 m.b.
W.: 18.30-24.00, Sun.: 17.30-24.00 in 47 m.b.

Açores Regional: D.: 20.00-21.00 in 27 m.b., 21.15-24.00
in 62 m.b.

Announcement: "Lisboa - Emissora Nacional a trabalhar
com os meios de ... (Lisboa I, Lisboa II, Porto I,
Porto II, Faro e Guarda) e as estações de Ondas Curtas
em ...".

OVERSEAS SERVICE:

	kc/s	m	kW	kc/s	m	kW
Centro Emissor	5976	50.20	10	11964	25.07	100
Ultramarino	6360	47.17	10	11996	25.01	100
Lisboa	6374	47.07	10	15030	19.95	100
	7260	41.32	100	15100	19.87	100
	9670	31.02	100	15125	19.83	100
	9740	30.80	100	15150	19.80	100
	9746	30.78	50	17740	16.91	100
	11836	25.34	100	17860	16.80	100
	11920	25.17	100	21490	13.96	100
	11924	25.15	100	21660	13.85	100
	11940	25.13	100	25660	11.69	100
	11960	25.08	100	25690	11.68	100

Daily Programmes (Portuguese only):

11.00-13.00 to Macau, Timor in 19 m.b.

14.45-17.00 to Goa, Damas, Diu in 19 m.b.

17.30-20.30 to Mozambique, Angola, S.Tome in 30, 25.

Portugal – Rumania

21.00–23.30 to Guinea, Cape Verde, Brazil in 30, 25.
00.00–02.00 to N. America, N. Atlantic, Greenlandic
Waters in 50, 47, 30 m.b.

News: 01.00, 12.00, 16.00, 17.35, 20.15, 21.05 (for Guinea, Cape Verde), 22.45 (for Brazil).

Announcement: “Aqui Lisboa – Estação de Ondas Curtas da Emissora Nacional a trabalhar nos comprimentos de ondas de ... nas frequências de ...”.

Interval-Signal: Gong. **Verification** by QSL-card.

PRIVATE STATIONS

R. Renascença religiosa. Other stations commercial.

R. Renascença

Address: Emissora Católica Portuguesa, Rua Capelo 5, Lisbon. – **Leading Personalities:** Dir.: M. L. da Cruz. Cooperators: Father D. de Oliveira Costa Maia and Father W. Leal.

Stations: **R. Renascença:** 18.30–24.00 (Sun. also 11.15–13.00).

Lisbon 1286 kc/s 233 m 2 kW

Lisbon 6154 – 48.74 – 7 –

Porto 1169 – 256.6 – 6 –

Announcement: *Portuguese:* “Aqui Rádio Renascença. Emissora Católica Portuguesa”. *English:* “This is the Portuguese Roman Catholic Broadcasting System”.

Interval-Signal: Gong. – Progr’s open with a religious choir.

R. Clube Portugues, Parade:

Stations: Parade.

CSB2 1034 kc/s 290 m 20 kW

CSB 12865 – 23.32 – 0.5 –

Daily Progr. in Portuguese: 06.00–24.00. *News:* 11.30 (Sun.), 12.30(W.), 19.15, 23.45.

Announcement: “Rádio Club Português-Parade-Portugal”. – **Verification** by QSL-card.

Radio Ribatejo, Santarem: 1322 kc/s 227.0 m 0.15 kW 12.00–14.00 (Sun. 11.00–14.30), 18.00–20.00.

R. Polo Norte, Coramulo: 1460 kc/s 205.6 m 0.15 kW.

Radio Alitude: Sanatorio Sousa Martins, Guarda, 1495 kc/s 200.5 m 0.005 kW.

Radio Pendas de Saude, Sanatorio das Pendas de Saude, Covilha: 1546 kc/s 194.0 m 0.01 kW.

Portuense Radio Clube, Oporto: 1562 kc/s 192.1 m 0.15 kW. *W.*: 11.30–14.00, 16.00–24.00. *Sun.*: 09.00–24.00.

Emissores Associados de Lisboa: 1594 kc/s 188.0 m 0.15 kW. “R. Peninsular”, “R. Graça”, “Voz de Lisboa”, “Club Radiofonico”, “R. Restauração”.

Em. Reunidos do Norte, Oporto: 1602 kc/s 187.0 m 0.15 kW. *D.*: 08.00–24.00.

RUMANIA

Address: Comitetul de Radio, de pe lângă Consiliul de Miniştri al Republicii Populare Române, Bucuresti, str. A. St. Popov Nr. 62.

HOME SERVICE:

	kc/s	m	kW	
Bucuresti I	854	351.3	150	04.56–22.00.
Romania	155	1935.0	150	03.56–07.00, 11.00–22.00.
Timisoara II	755	397.3	50	03.56–07.30, 11.00–20.00.
Bucuresti II	1052	285.1	5	03.56–05.30, 11.00–20.00.
Cluj	1151	260.9	20	03.56–05.00, 13.15–20.30.
Craiova	1457	205.9	20	12.30–20.00.

FOREIGN SERVICE:

155 kc/s 1935 m 150 kW – 9254 kc/s 32.43 m 4 kW
755 kc/s 397.3 m 50 kW – 9570 kc/s 31.35 m 2 kW
6210 kc/s 48.31 m 5 kW – 12032 kc/s 24.94 m 0.075

English

03.00–03.30 in 31 m.b. 22.30–23.00 in 1935, 31 m.b.
19.30–20.00 in 48, 32, 31, 25 m.b.

French

19.00–19.30 in 31 m.b. 22.00–22.30 in 31 m.b.
20.30–21.00 in 48, 32, 31, 25 m.b.

German

18.00–18.30 in 48, 32, 31, 25 m.b. 22.00–22.30 in 48, 32, 25, 1935 m.b. 21.00–21.30 in 48, 32, 31, 25 m.b.

Greek

11.30–12.00 in 48, 32, 25 m.b. (not Mo.).
18.30–19.00 in 48, 32, 31, 25 m.b.

Italian

17.00–17.30 in 31 m.b. 20.00–20.30 in 48, 32, 31, 25 m.b.

Rumanian

03.30–04.00 in 31 m.b.

Russian

17.00–17.30 in 48, 32, 25 m.b.

Serbian

05.00–05.15 in 397 m (exc. Sun.). 18.00–18.30 in 397 m.b.
17.30–18.00 in 48, 32, 25 m.b. 19.30–20.00 in 397 m.b.

Yiddish

17.30–18.00 in 31 m.b.

Concerts

21.30–22.00 in 48, 32, 31, 25 m.b.

22.30–23.00 in 48, 32, 25 m.b.

Announcement: *English:* “This is Bucharest calling in the ... m.b. with its broadcast in English”.

Interval-Signal: Celesta.



Verification by QSL-card.

SAAR

RADIO SAARBRÜCKEN (Government).

Address: Radio Saarbrücken, Martin Lutherstr. 12, Saarbrücken 3, Saar.

Leading Personalities: Directors: Frédéric Billmann, Hans Wettmann. Administrator: E. Müller. Chief-Editor: W. Diderich. Chief-Eng.: F. Glasow. Chief of Studio: Dr. Heinz Freiberger.

Stations: 1421 kc/s 211.1 m 20 kW. FM 88.2 mc/s 0.25 kW.

First Programme: 1421 kc/s: Mo. -Fri. 04.57–08.00, 10.15–13.30, 16.30–22.50. Sat.: 04.57–07.50, 10.15–22.50. Sun.: 04.57–22.50.

News and Weather Report: 05.00, 06.00, 07.00(Sun.).

O. I. R.'s

Documentation and Information

BULLETIN

published in English, French, Russian and Chinese gives you every 3 months a lot of valuable information on what is going on in the world of Broadcasting.

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*Exporters and Importers of Cultural
Commodities,*

Ve Smečkáč 30, Prague 2, Czechoslovakia

07.30(W.), 11.00(Sun.), 11.45, 13.00(W.), 17.00(W.), 18.30(W.), 19.00(Sun.), 21.00, 22.45.

Symphony from Paris: Sun. 16.45. "Europäisches Forum": Wedn. 22.00. "Geistiges Abendland" Sat. 21.15.

Second Programme: FM: W.: 17.00-21.15. From 04.57-17.00 and from 21.15 relay 1. progr. Sun.: 16.45-21.15. From 04.57-16.45 and from 21.15 relay 1st progr.. *News*: W.: 18.30. Sun.: 19.00.

Announcement: "Hier spricht Radio Saarbrücken auf Wellenlänge 211.1 m". "... (UKW 88.2)".

Interval-Signal: "Kein schöner Land in dieser Zeit".



Verification by QSL-card.

SPAIN

DIRECCIÓN GENERAL DE RADIODIFUSIÓN

The Dirección General de Radiodifusión is the central authority for broadcasting in Spain, but does not operate stations of its own.

Address: Montesquiza No. 2, Madrid.

RADIO NACIONAL DE ESPAÑA

Address: Castellana nr. 42, Madrid.

Leading Personalities: Dir. of Progr.: J. Ramon. Alonso. Chief Eng.: F. M. Reina. Chief of Studios: M. Estevez. Chief of Spanish Department: V. F. Asis. Chief of Foreign Department: L. de Andres. Chief of music: E. F. Manera. Chief of Coordination & Exchange: A. A. Ruiz. Chief of Department for lower frequencies: F. Mestre. Administrator: E. Frax.

Stations: Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Sevilla	638	471	5*)	Madrid	1022	293	5
La Coruna	701	428	20*)	Barcelona	1223	245	30
Madrid (Nat)	737	407	120*)	Valencia	1385	216	1
Malaga	1000	300	6*)	Cuenca	1500	200	0.2*)

*) Nacional Progr. §) 1st & 3rd Progr.

Short Waves: Malaga 6990 kc/s 42.92 m 1.5 kW*)

Madrid I 9370 kc/s 32.01 m 40 kW 17.05-03.45

Madrid II 15635 - 19.18 - 50 - 15.50-16.55

Madrid III, IV, V & VI (100 kW each) under constr.

HOME SERVICE in Spanish:

First Programme on 1022 kc/s: 07.00-12.00.

National Programme on 737 kc/s: 12.00-24.00. *News*: 13.30 & 21.00 (relayed by all Spanish stations). *Religious broadcasts*: 20.30 Sun., 20.45 Tues., 19.45 Sat. *Play*: 22.15 Sun., 20.00 Tues., 23.00 Wed., 15.00 Thurs. *Oper.*: 22.40 Mo. *Spanish Music*: 22.05 Wed. *Spanish Orchestra*: 22.05 Tues.

Third Programme on 1022 kc/s: 21.30-23.30.

Interval-Signal: "Campanitas". **Opening-Tune**: "Cabalgata". Closes with National Anthem.

FOREIGN SERVICE:

European Service on 9370 kc/s:

English: 20.15-20.45, *French*: 18.20-18.50, *German*: 17.20-17.40, *Hungarian*: 19.05-19.20, *Italian*: 17.05-17.20, *Polish*: 19.20-19.50, *Rumanian*: 18.50-19.05, *Russian*: 19.50-20.15, *Slovak*: 17.40-17.55.

Overseas Service:

Arabic: 17.55-18.20 on 9370 kc/s.

English: 23.00-23.40 & 03.00-03.45 to N. America on 9370 kc/s.

Portuguese: 21.15-21.45 to Brazil on 9370 kc/s.

Spanish: 15.50-16.16 Merchant Service on 15635 kc/s. 16.25-16.55 to Canary Islands on 15635 kc/s. - 21.00-21.15 to Atlantic on 9370 kc/s. - 21.45-22.15 to Guinea & West Africa on 9370 kc/s. - 22.20-22.50 to Philippines on 9370 kc/s. - 23.40-03.00 to Latin America on 9370 kc/s.

The programme in the Overseas Sce consist of news of Spanish affairs, music, commentaries, talks and interviews with important Spanish and foreign personalities. **Announcement**: "R. Nacional de Espana, Madrid" in different languages except for N. American Sce: "The Voice of Spain". - **Interval-Signal**: Gong and the following tune:



Verification by QSL-card or letter.

RADIO S.E.U. (Official-School Service).

Address: Servicio Nacional de Radiodifusion y Cine del Frente de Juventudes, Diego de León 49, Madrid.

Leading Personalities: Dir.: A. A. Ruiz. General-Secretary: G. B. Marco. Chief Engineer: F. D. Guerra. Technical Inspector: M. S. Sagredo. Chief of Programmes: F. R. Puertos. Chief Editor: M. R. Zuasti.

Stations:

Radio S.E.U., Madrid: 18.00-24.00.

1300 kc/s 230 m 0.8 kW 7140 kc/s 42.01 m 1 kW

1200 - 250 - 0.8 - R. Juventud de Almeria

1205 - 249 - 0.5 - R. Juventud de La Coruña.

1300 - 230 - 0.8 - R. Menorca, Mahon, 19.00-23.00.

1300 - 230 - 0.6 - R. Juventud de Cadiz, 13.00-15.00, 20.30-23.00.

1511 - 198 - 0.8 - R. Soria, Soria.

+ 25 low power m.w. stations less than 0.5 kW.

Announcement: "Emite Radio...", Estacion Escuela no... del Frente de Juventudes".

Interval-Signal: Fragments of the March-Songs "Juventua Española" and "Prietas las filas". **Verification** by QSL-card or letter.

SOCIEDAD ESPANOLA DE RADIODIFUSION

Address: Avenida José Antonio 32, Apartado 745, Madrid. *Cable*: SER.

HOME SERVICE:

Call	kc/s	m	kW	
EAJ7	593	505.0	15	R. Madrid: D. 09.00-24.00.
EAJ5	773	388.1	7.5	R. Sevilla: D. 11.00 (Sun. 08.30)-24.00
EAJ1	800	375.0	5/7.5	R. Barcelona: D. 06.30 (Sun. 07.30)-23.00
EAJ8	1025	292.7	1.5	R. San Sebastian: D. 11.00-23.00 (Wed., Sun. 24.00)
EAJ28	1133	264.8	2.5	R. Bilbao: D. 09.00 (Sun. 08.30)-24.00
EAJ3	1259	238.5	5	R. Valencia: D. 11.00-24.00
EAJ11	1430	209.8	2	R. Reus: D. 11.00 (Sun. 10.00)-23.00
EAJ4	1447	207.0	2	R. Galicia: D. 12.00 (Sun. 11.30)-23.00
EAJ31	1448	207.2	2	R. Alicante: D. 11.00-23.00
EAJ54	1500	200.0	2	R. Alcira: D. 11.00-23.00

Short Wave:

EAJ 7037.2 42.63 3 R. Mediterraneo: D. 11.00-23.00 (Sun. Mo. Wed. 24.00)

Associated Stations:

EAJ65	1148	261.5		R. Ciudad Real, Ciudad R.
EAJ56	1313	228.5	2	R. Salamanca. D.12.00-23.00 (Sun. 24.00)
EAJ41	1376	218.0	2	R. Coruna: D. 13.00 (Sun. 11.00)-23.00
EAJ61	1412	212.5		R. Jaen: D. 13.00 (Sun. 12.00)-23.00
EAJ23	1412	212.5	5	R. Gandia: D. 11.00-23.00
EAJ13	1432	209.5	2	R. Mallorca: D.11.30-23.00
EAJ16	1448	207.2	1	R. Granada: D. 14.00-22.00
EAJ27	1448	207.2	9	R. Castilla: D. 13.00-23.00

Spain – Sweden

Call	kc/s	m	kW	
EAJ47	1448	207.2	2	R. Valladolid: D. 12.30 (Sun. 09.30)–23.00
EAJ62	1457	206.0	2	R. Vitoria: D. 11.00 (Sun. 09.00)–23.00
EAJ22	1475	203.4	2	R. Huesca: D. 12.30–23.00
EAJ52	1484	202.2	1	R. Extremadura: D. 12.30–23.00
EAJ72	1492	201.1	2	R. Zamora: D. 12.30–23.00
EAJ44	1493	201.0	2	R. Albacete: D. 12.30 (Sun. 12.00)–23.00
EAJ40	1493	201.0	2	R. Pontevedra: D. 12.00–23.00
EAJ14	1500	200.0	2	R. Castellon: D. 12.00 (Sun. 09.00)–23.00
EAJ50	1500	200.0		R. Las Palmas
EAJ17	1511	198.5	2	R. Murcia: D. 13.00 (Sun. 11.30)–23.00

News from R. Nacional, Madrid, 13.30 and 21.00 relayed by all stations.

R. Madrid. Address: Av. José Antonio 32, Madrid.

R. Sevilla. Address: Rafael Gonzalez Abreu 4, Sevilla. Request Programme: D.: 14.15. Folklore Andalusian: Wed. 22.45, Fri. 12.55, Sun. 23.30.

R. Barcelona. Address: Caspe, 6, Barcelona.

Listeners Requests: W.: 09.00. D.: 17.00. Sun.: 15.45.

R. S. Sebastian. Address: Av. España 27, S. Sebastian.

R. Bilbao. Address: Rodriguez Arias 6, 4°, Bilbao.

R. Valencia. Address: D. Juan de Austria, 3, Valencia.

R. Reus. Address: Arrabal S. Ana, 50 3°, Reus.

R. Galicia. Address: Plaza de la Universidad, 5, Santiago de Compostela.

R. Alicante. Address: Garcia Morato, 55, Alicante.

Listeners Hour: D.: 11.10.

R. Alcira. Address: Plaza de Caudillo 57, Alcira.

R. Mediterraneo. Address: Av. Morques de Soletto, 2, Valencia.

COMPANIA DE RADIODIFUSION INTERCONTINENTAL

Address: Diego de Leon 50, Madrid.

Madrid 917 kc/s 327.2 m 10 kW 12.00–15.00, 13.00–24.00 + 30 low power m.w. stations.

Announcement: "Aquí Madrid, Emisora Radio Intercontinental".

Radio Falange de Alicante.

Address: Angel Lozano, 20 (Entlo), Alicante.

Station: Alicante 7940 kc/s 37.78 m 0.75 kW.

Daily Programmes: 11.00–15.00, 18.00–23.30.

Relay R. Vatican: D. at 20.00.

Announcements: At opening the march "Heroína" followed by "Radio Falange de Alicante, Colaborador de la Compañía de Radiodifusión Intercontinental".

Verification by QSL-card.

Radio Zaragoza.

Address: Cía. Aragonesa de Radiodifusión, Zaragoza.

Station: Zaragoza 872 kc/s 344.0 m 30 kW.

Daily Programmes: 08.00–09.00, 12.00–14.30, 18.00–23.00.

News: 12.50, 13.30 (relay RNE), 20.45 (relay RNE).

"RADIO ESPAÑA".

Addresses: Rambla de los Estudios, 8, Barcelona. Manuel Silvela, 9, Madrid.

Stations:

Madrid EAJ2 854 kc/s 351 m 3.5 kW

Barcelona EAJ15 1124 -- 266.9 -- 3 --

Daily Programme:

Barcelona: 12.30–15.00, 17.00–18.30, 19.30–23.00.

Madrid: 12.30–15.00, 18.00–23.30.

R. ALERTA: Address: Calle de Colon 11, Valencia.

Leading Personalities: Director: V. B. Fugola. Deputy

Director: R. C. Martinez. Chief-Engineer: J. M. Serra.

Director of Programmes: M. V. Alonso.

Station: Valencia 6960 kc/s 43.10 m 0.25 kW.

Daily Programmes: 12.00–14.00, 20.30–23.00.

Announcement: "Transmite R. Alerta de Valencia, Emi-

sora Regional de la Guardia de France, al servicio de España y la Falange, radiando en onda de 43 metros y frecuencia de 6960 kc/s". – Interval-Signal:

CLICHE 1953

RADIO FALANGE DE OVIEDO

Address: Asturias 15, Oviedo.

Stations: Oviedo 0.25 kW.

1428 kc/s 210.0 m – 7230 kc/s 41.49 m.

Daily Programmes: 11.00–14.00, 19.00–23.00. On short wave only Sundays.

LA VOZ DE LA FALANGE, Madrid.

Address: Alcala, 44, Madrid.

Leading Personalities: Dir.: T. D. Pomata. Editor: R. Garcia.

Home Service in Spanish:

7380 kc/s 40.65 m 1 kW 19.00–20.30, 22.00–01.00.

Bullfight on Fridays. Political commentary on Sundays.

Announcement: "Esta Emisora es "La Voz de la Falange"".

Interval-Signal: A few bars of the "Cara al Sol" at opening of every broadcast.

CLICHE 1953

RADIO FALANGE DE VALLADOLID (Government)

Address: Emisora F.E.T. nr. 1, "Radio Falange", Santiago nr. 2, Valladolid.

Leading Personalities: Dir.: C. Alvarez Pérez. Dir. of Progr.: F. Luengo Escudero.

Stations: FET-1 Valladolid. 12.30–15.00, 20.00–23.00.

1300 kc/s 230.8 m 0.5 kW – 7006 kc/s 42.83 m 0.5 kW

News: 12.35–12.50, 20.05, 20.20. Announcement: "FET-1

Radio Falange de Valladolid". Interval-Signal: Stroke on multi-note gong.

SWEDEN

Distribution of Programmes: The Royal Board of Swedish Telegraphs, Stockholm 16. Cable: Gentel.

Leading Personalities: Director General: H. Sterky. Chief of Radio Division: E. Magnusson. Chief of Broadcasting Section: Erik Esping.

Medium Waves:

	182 kc/s	1648.4 m	10	kW
Luleå	182	1648.4	10	–
Motala	191	1570.7	150	–
Östersund	420	714.3	10	–
Sundsvall	593	505.9	150	–
Malmberget	773	388.1	2	–
Stockholm	773	388.1	55	–
Göteborg	980	306.1	150	–
Hörby	1178	254.7	100	–
Falun	1223	245.3	100	–
Hälsingborg	1223	245.3	0.5	–
Eskilstuna	1394	215.2	0.5	–
Jönköping	1394	215.2	0.2	–
Karlskrona	1394	215.2	0.5	–
Kiruna	1394	215.2	0.5	–
Kristinehamn	1394	215.2	0.2	–
Säffle	1394	215.2	0.4	–
Trollhättan	1394	215.2	0.25	–
Uppsala	1394	215.2	0.5	–
Varberg	1394	215.2	0.2	–
Visby	1394	215.2	0.5	–
Gävle	1448	207.2	0.5	–
Hudiksvall	1448	207.2	1.0	–
Örnsköldsvik	1448	207.2	1.5	–
Porjus	1529	196.2	0.075	–
Söderhamn	1529	196.2	0.06	–
Umeå	1529	196.2	1.0	–
Borås	1562	192.1	2.0	–
Halmstad	1562	192.1	2.0	–
Kalmar	1562	192.1	2.0	–
Karlstad	1562	192.1	0.25	–
Malmö	1562	192.1	2.0	–
Norrköping	1562	192.1	0.25	–
Uddevalla	1562	192.1	0.5	–
Örebro	1562	192.1	0.5	–

Short Waves: (Hörby=H. 100 kW. Motala=M. 12 kW).

kc/s	m	kc/s	m	kc/s	m
6065	49.46 H.	9535	31.46 H.	11880	25.25 H.
6095	49.22 H.	9620	31.19 H.	15155	19.80 H.
7210	41.61 H.	11705	25.63 H.	17800	16.85 H.
7270	41.27 M.				

SWEDISH BROADCASTING CORPORATION

(Government-Private:)

Address: A/B "Radiotjänst" (Swedish Broadcasting Corporation), Stockholm 7.

Leading Personalities: Director General: Elof Ehnmark. Managing Director: Erik Mattsson. Director of Music: Per Lindfors. Director of Talks: Nils-Olof Franzén. Director of Drama: Herbert Grevenius. Director of News and Special Events: Henrik Hahr. Technical Director: Johan von Utfall. Director of Publications Department: Manne Ginsburg.

HOME SERVICE in Swedish:

Medium Waves: Mo.-Fri. 05.15-14.00, 16.00-22.30 (approx). Sat. 05.15-23.00. Sun. 06.00-22.00.

Short Waves: 6065, 7270 kc/s: 05.00-10.00 (Sun. 09.00), 16.00 (Sat., Sun. 16.10)-23.00. - 11705, 7270 kc/s: 10.00 (Sun. 09.00)-16.00 (Sat. 16.10).

News: 05.30 (W.), 07.00, 11.30, 18.00, 21.15. The News is followed by weather forecasts. Weather Forecast for Swedish Waters daily: 16.00. - Variety Hour: 19.00 Tues., Sat. - Dance and Listen: 21.30 Fri.

Announcement (National Program): "Sveriges Radio..." and the name of the transmitting station. For instance: "Sveriges Radio, Stockholm".

FOREIGN SERVICE:

EUROPEAN SERVICE:

6095 kc/s (winter), 9620 kc/s (summer). 19.00-19.30 French, 19.30-20.00 German, 20.00-20.30 English, 20.30-20.45 Spanish.

News, commentaries, reportage, music etc.

SWEDEN CALLING DX-ers every Fri. and Sat.

Fri. 15.45, 22.30, Sat. 07.15 on 6065 kc/s.

OVERSEAS SERVICE:

I September-April. II May-August. III November-February. IV March-October. V March-April, Sept.-Oct.

To Eastern North America:

French: 00.00-00.30	English: 00.30-01.00	6065 (I)
Swedish: 01.00-02.00	English: 02.00-02.45	9535 (II)
Swedish: 12.15-12.45	English: 12.00-12.15	9620 (III), 15155 (IV)

To Western North America:

English: 04.00-04.30	Swedish: 04.30-05.00	6095 (III), 9535 (V), 11880 (II)
21.00-21.30	21.30-22.00	

To South America:

English: 11.00-11.15	Swedish: 11.15-11.45	17800 (III), 15155 (IV)
Spanish: 23.00-23.30	Portug.: 23.30-24.00	6095 (III)
Swedish: 00.00-01.00	Portug.: 01.30-02.00	9535 (V)
Spanish: 01.00-01.30		11705 (II)

To Africa:

English: 05.00-05.30	Swedish: 05.30-06.00	7210 (III), 11705 (V), 15155 (II)
18.00-18.15	18.15-18.45	

To Middle East:

English: 03.00-03.15	Swedish: 03.15-03.45	6095 (I), 9535 (II)
17.00-17.15	17.15-17.45	6095 (III), 11880 (V), 15155 (II)

To Southern Asia, Australia:

English: 04.00-04.15	Swedish: 04.15-04.45	9535 (III), 15155 (IV)
French: 14.00-14.30	English: 14.30-15.00	9535 (III), 11880 (V)
Music: 15.00-15.30	Swedish: 15.30-16.00	15155 (II)

To Far East:

English: Swedish:

13.00-13.15 13.15-13.45 7210 (III), 11880 (V), 15155 (II)
23.00-23.15 23.15-23.45 7210 (III), 9620 (V), 11880 (II)

Announcements: "This is Radio Sweden" - "Ici Stockholm" - "Hier ist der Swedische Rundfunk, Stockholm" - "Habla Estocolmo" - "Agui Estocolmo".

Interval-Signal: The first movement of Carl Michael Bellman's: "Storm och böljor tystna ren".



Verification by verification-card. Special questions by letter. Reports to "Sweden Calling DX-ers" should be addressed to DX-Editor, Radio Sweden, Stockholm 7, Sweden. No return postage required.

Publications: Weekly: "Röster i Radio" (The Voice of the Radio). Monthly: "Hörde ni" (Did you hear that). A folder is published as a free service to listeners and is available in six languages: English, French, German, Spanish, Portuguese and Swedish.

Future-Plans: Two new 150 kW m.w. stations in Stockholm and Östersund in 1954.

SWITZERLAND

SWISS BROADCASTING CORPORATION

Addresses: Schweizerische Rundspruchgesellschaft, Société Suisse de Radiodiffusion, Swiss Broadcasting Corporation, Società Svizzera di Radiodiffusione - Neuengasse 30, Berne. Cable: Radif.

Schweizerische Kurzwellendienst, Service suisse des Ondes courtes, Swiss Shortwave Service, Neuengasse 23, Berne. Radio-Zürich, Brunnenhofstrasse 20, Zürich. - Radio Berne, Schwarztörstrasse 23, Berne. - Radio-Basel, Novarstrasse 2, Basel. - Radio-Lausanne, Maison de la Radio, La Sallaz, Lausanne. - Radio-Genève, 66, Boulevard Carl Vogt, Genève. - Radio-Lugano, Campo Marzio, Lugano.

Leading Personalities: Director General of S.B.C.: Marcel Bezencon. Head of Administration and Deputy Director-General: Georges Conus. Director of Swiss Shortwave Service: Paul Borsinger. Head of Spoken Word in Swiss Short Wave Service: Hans de May. Head of Television Service: Edouard Haas.

Manager of the Regional Centres: Beromünster: Studio Zürich: Dr. Jakob Job. Studio Berne: Dr. Kurt Schenker. Studio Basel: Dr. Fritz Ernst. Sottens: Studio Lausanne: Jean-Pierre Méroz. Studio Genève: Dr. René Dovaz. Monte Ceneri: Studio Lugano: Dr. Stelio Molo.

HOME SERVICE:

German: (W.): 05.15-06.30, 10.00-13.30, 15.00-22.00. Sat.: 05.15-06.30, 10.00-22.00. - Sun.: 05.55-06.45, 07.30-22.00.

Beromünster: 529 kc/s 567.1 m 150 kW.

Chur: 1367 - 219.5 - 0.5 - relay.

Sool: 1367 - 219.5 - 0.5 - -

Basel: 1367 - 219.5 - 0.5 - -

FM: St. Anton 94.8 mc/s 3 kW relay.

News: 05.15 (W.), 06.00, 11.30, 18.30, 21.15. Progr. Preview: 06.05, 18.25. World Chronicle: Fri. 18.10. W. Review for Swiss abroad: Mo. 21.20. Symphony: Tues. 19.00. French: (W.): 06.10-06.40, 10.00-13.00 (Sat. 22.15), 15.30-22.00. Sun.: 06.10-06.40, 07.45-22.15.

Sottens: 764 kc/s 392.6 m 150 kW.

Savièse: 1367 - 219.5 - 0.5 - relay.

News: 06.15, 11.45, 18.15, 21.30. Program Preview: 18.14. Symphony: Wed. 19.30.

Italian: (W.): 06.00-06.45, 10.00-12.45, 15.30-21.30 (Sat. 22.30). Sun.: 06.00-06.30, 09.30-21.30.

Monte Ceneri: 557 kc/s 538.6 m 50 kW.

News: 06.15, 11.30, 18.15, 21.15. Progr. Preview: 18.20. Symphony: Thurs. 19.50.

Announcements: Beromünster: "Schweizerischer Landes-

Switzerland

sender Beromünster". - *Sottens*: "Sottens - Emetteur national Suisse". - *Monte Ceneri*: "Radio della Svizzera italiana-Stazione nazionale di Monte Ceneri".

Interval-Signals:

Beromünster: Radio Basel: "Z'Basel a mym Rhy".



Radio Bern: "D'Zyt isch do"



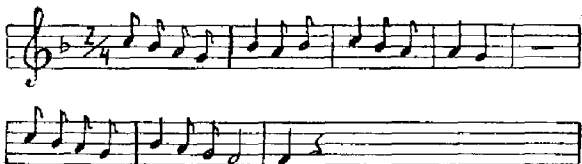
Radio Zürich: "Chum Bueb und lueg dis Ländli a"



Sottens: Radio Lausanne: "Voici l'ami-été"



Radio Genève: "Quelle fatale journée"
chanson de l'Escalade



Monte Ceneri: "Campane delle Chiesa di Pazzalino"

FOREIGN SERVICE:

Schwarzenburg: 25-100 kW.

	kc/s	m		kc/s	m
HER22	3985	75.28	HEI5	11715	25.61
HER2	6055	49.55	HER5	11865	25.28
HER3	6165	48.66	HED7	15120	19.84
HEI3	7210	41.61	HER6	15305	19.60
HER4	9535	31.46	HER7	17784	16.87
HEU3	9665	31.04	HER8	21520	13.94

EUROPEAN SERVICE:

German, French, Italian on HER22, HER3, HER4.
W.: 05.15-06.40, 10.00-13.30 (Sat. 22.30), 15.00-22.30.
Sun.: 05.55-06.40, 07.45-22.30.

News: (G=German, F=French).

05.15 (G), 06.00 (G), 06.15 (F), 11.30 (G), 11.45 (F),
18.15 (F), 18.30 (G), 21.30 (F), 22.20 (G).

Esperanto: Tues., Thurs. 11.55 and 17.35.

European Service rebroadcast to Africa:

05.15 (Sun. 05.55)-06.40 on HER6, 10.00-12.30 on
HER7, 14.45-22.30 on HER6. (14.45-16.30 same pro-
gramme in English as for India and Pakistan (see Over-
seas Service)).

OVERSEAS SERVICE:

(U.K.=United Kingdom, N.Z.=New Zealand).

English	Stations	Beamed Areas
18.45-20.30	HER2/HEU3	U.K., Ireland
01.30-04.00	HER3/HEI3/HER4	North America
07.15-09.45	HER5/HER6/HER7	Australia, N.Z., F.East
12.45-14.30	HER5/HER6/HER7	Japan, S.E. Asia
14.45-16.30	HER5/HER7	India, Pakistan
16.45-18.30	HER5/HED7	Near East

Transmissions from 01.30-18.30 are repeats or partly
repeats of the 18.45 programme to United Kingdom
the day before.

Daily Programmes in English:

"Disc of the Day": 18.45, 01.30, 03.15, 07.15, 09.00,
12.45, 14.45, 16.45.

"Home News": 18.50, 01.35, 03.20, 07.20, 09.05, 12.50,
14.50, 16.50.

"Press Review": Tues., Wedn., Thurs., Fri. 18.55, 01.40,
03.25, 07.25, 09.10, 12.55, 14.55, 16.55.

"Swiss Country Dances": Sun. 18.55, 01.40, 03.25, 07.25,
09.10, 12.55, 14.55, 16.55.

"Yodels from the Hills": Sat./Mo. 19.05, 01.50, 03.35,
07.35, 09.20, 13.05, 15.05, 17.05. (At the same times
Fri./Sat. "Dancing in Switzerland" and Wedn./Thurs.
"The Village Dances".)

"The Swiss Family Robinson": Thurs.: 19.15 to UK and
Ireland; Fri.: 02.00, 03.45, to N. America; Fri.: 07.45
to E. Australia and N.Z.; Fri. 09.30 to W. Australia,
F. East; Fri.: 13.15 to S.E. Asia, Japan; Fri.: 15.15 to
India-Pakistan; Fri.: 17.15 to Middle East.

"World Youth Radio Magazine": Sat./Sun.

"Bells of Switzerland": Sun. "Guests of Switzerland: Mo./
Tues.: 19.20, 02.05, 03.50, 07.50, 09.35, 13.20, 15.20, 17.20.

"Castles and People": Fri./Sat.: 19.20, 02.05, 03.50, 07.50;
09.35, 13.20, 15.20, 17.20.

"For Swiss Abroad": Mo./Tues. "Soirée Romande": Wed./
Thurs. "Serata Ticinese": Fri./Sat. "Schwizerdütsche
Heimatobe": 19.30, 01.15, 08.00, 13.30, 15.30, 17.30.

"Swiss Compositions": Thurs./Fri.; Request programme:
Sat./Mo.; times as "Swiss Abroad".

Symphonies: Tues./Wedn. 19.40, 02.25, 08.10, 13.40,
15.40, 17.40.

"DX Programme": First Tues./Wedn. of the month:
19.05, 01.50, 03.35, 07.35, 09.20, 13.05, 15.05, 17.05.

Portuguese and Spanish:

20.45-22.30 HER2/HEU3 Portugal, Spain (Braz.)

23.00-01.00 HEI3/HER4/HER5 Brazil, Latin America

Portuguese: 20.45-21.00, 23.00-23.15. News: 20.45, 23.00.

Spanish: 21.00-22.30, 23.15-01.00. News: 21.15, 23.30,
00.45.

Adaptacion radiofonica del cuento suizo "Heidi" de Johan-
na Spyri: Mo. 21.30 to Spain, 23.45 to Latin America.

Bailables en Suiza (request progr.) Sat. 21.30 to Spain,
23.45 to Latin America.

Popurri dominical (classical music): Sun. 21.30 to Spain,
23.45 to Latin America.

For Swiss Abroad: 21.30, 23.45. "Soirée Romande"
(French): Mo.; "Serata Ticinese" (Italian): Wed.;

"Schwizerdütsche Heimatobe": Fri.

Announcements: "Switzerland Calling" - "Do isch
d'Schwiz" - "Ici la Suisse" - "Qui è la Svizzera" -

"Habla Suiza" - "Aqui Suiza" - "Hier spricht die
Schweiz" - "Quia eis la Svizzera" - "Parola Svislando".

Interval-Signal: Schwarzenburg: "Lueget vo Berg und
Thal".



Verification by QSL-card. Programme schedules are
available (free of charge) from address: Swiss Short-
wave Service, Neuengasse 23, Berne (Switzerland).

UNO BROADCASTING FROM GENEVA

Address: United Nations Information Center, Genève.
Cable: Omnipress.

Leading Personalities: Dir. of Information Centre: Jerzy Szapiro. Radio Officers: R. Nivelles, Miss Leila Doss.
Station: HBQ 6675 kc/s 44.94 m 25 kW.

Daily Programs: 18.15 UN Feature Progr. (English Mo., Wed., Fri., French Tues., Thurs.). 18.30 English Bulletin. 18.45 French Bulletin.

Announcement: "This is the United Nations calling the peoples of the world".

Interval-Signal:



Verification: Reports answered by QSL-card and letter.

TRIESTE (Free Territory)

ENTE RADIO TRIESTE (Government)

Address: Piazza Oberdan N. 5, Post Box N. 460, Trieste.
Cable: "Radiotrieste".

Leading Personalities: Co.-Dir.: R. R. Rim (American). Co.-Dir.: W. M. Harrison (British). Regent: Dr. G. Candussi (Italian). Deputy Regent: L. Fonda (Italian).

HOME SERVICE:

Trieste I 818 kc/s 366.7 m 10 kW Italian
 Trieste II 980 - 306.1 - 2.5 - Slovene
 Trieste 2 1484 - 202.2 - 0.25 - R. 2 Progr. RAI
 Trieste FM 92.9 mc/s 0.05 - R. 3 Progr. RAI

Daily Programmes:

Trieste I: W.: 06.00-08.00, 10.00-14.00, 16.30-23.00, Sat. 06.00-08.00, 10.00-23.00. Sun.: 07.00-23.00. **News:** 06.30 (W.), 07.15 (Sun.), 12.00, 17.00 (W.), 19.00, 22.15.
Trieste II: W.: 06.00-07.30, 10.30-13.45, 16.30-23.00, Sat.: 06.00-07.30, 10.30-23.00. Sun.: 07.00-23.00. **News:** 06.10 (W.), 07.10 (Sun.), 07.20 (W.), 11.45, 13.35, 17.30 (W.), 18.45, 22.15.

Announcement: "This is Radio Trieste I" - "Questa è Radio Trieste prima" (Italian). "Here is Radio Trieste II" - "Tukai je Radio Triest postaja dve" (Slovene).

Interval-Signal: Trieste I: Motif of a popular Triestine song played on harp.



BRITISH FORCES RADIO STATION

(British-U.S.A Zone)

Address: British Forces Radio Station, Via Bellosguardo 8, Trieste (Betfor.)

Leading Personality: Director: Ian Wolf.

Station: 1385 kc/s 216.6 m 1 kW.

Daily Progr.: 05.30-08.00, 11.00-13.15, 16.00-23.00. Sat.: 05.30-08.00, 11.00-23.00. Sun.: 06.30-23.00. **News:** 07.00, 11.00, 13.00, 18.00, 20.00 (relay BBC).

AMERICAN FORCES RADIO STATION

(British-U.S.A. Zone)

Address: American Forces Radio Station, Via Piccardi 16, Trieste (Trust). **Leading Personalities:** Dir. Gen.: Capt. R. Levine. Progr. Dir.: Francis McLaughlin.

Station: 1304 kc/s 230.1 m 1 kW.

Daily Programmes: 04.30-23.00. Sun.: 07.00-23.00. **News:** 05.00, 06.00, 07.00, 09.00, 11.30, 13.00, 15.00, 17.15, 19.00, 21.30, 23.00. Sun.: 09.00, 11.30, 14.00, 17.00, 19.00, 23.00.

RADIO TRIESTE (Jugoslav Zone)

Address: Radio Capodistria, Capodistria Trieste.

Station: 1169 kc/s 247 m 5 kW.

Daily Progr.: W. 06.00-07.00, 12.00-23.30. Sun. 07.00-15.30.

U. S. S. R.

Address: Radio Centre, P.O. Box 787, Moscow.

HOME SERVICES:

Moscow.

First Programme: 03.05-22.55 (Sun. 23.55).

155 kc/s 1935 m 1) 19, 25, 41, m.b.

173 - 1734 - 2) 31, 41, 50 m.b.

236 - 1271 -

1) Day, 2) Night.

News: 03.05, 04.00, 05.00, 10.00, 13.00, 16.00, 19.30.

Second Programme: W.: 12.00-22.00, Sun.: 05.45-22.00.

1) 200 kc/s 1500 m 3) 25 m.b.

2) 548 - 547.5 - 4) 41, 50 m.b.

1) until 16.00, 2) from 16.30, 3) until 14.00, 4) 41 m from 13.00, 50 m from 14.15. **News:** W.: 17.30.

Third Programme: 16.30 (Sun. 16.00)-21.00: 872 kc/s 344 m and 49 m.b.

Leningrad: I 236 1271 II 800 375 III 1124 267 s.w. 9600 kc/ On 236 kc/s: 02.55-11.45, 14.30-23.00.

On 800 kc/s: 05.15-11.15.

Kiev:

First Programme: 209 kc (1435 m). W.: 02.55-10.00, 13.20-23.00. Sun.: 02.55-24.00. 6020 kc/s (49.83 m). D.: 06.30-12.00, 15.00-17.00.

Second Programme: 782 kc (383.6 m). W.: 14.00-15.30. Sun.: 10.00-15.30.

Interstate Service:

To the Far East: 04.00-10.00 in 19, 25, 31, 49 m.b., 20.30-23.15 in 41, 31 m.b. **News:** 04.00, 05.45 (exc. Sun., Mo.), 20.30, 22.30.

To W. Siberia: 00.00-01.00 (exc. Sun., Mo.) in 49, 41 m.b. **News:** 00.00.

To Ural, C. Asia: 01.00-03.00 in 49, 41, 25 m.b. **News:** 01.00, 02.00.

Other Long- and Medium-Wave Stations:

* indicates that the station is situated outside Europe.

	kc/s	m		kc/s	m
*Novosibirsk	182	1648	Charkov	385	779
Siberia			Taschkent II,	400	750
23.00-07.00,			Simferopol	548	547
09.55-18.35			Riga	575	522
*Tbilisi, Georgia	191	1571	03.10-11.00,		
02.25-09.20,			13.00-19.30		
13.00-21.05			Petrozavodsk	611	491
*Baku, Azerberj.	218	1376	03.00-09.20,		
02.55-09.50,			12.55-22.00		
13.00-21.05			*Frunze, Kirgiz	611	491
*Irkutsk, Siberia	227	1322	23.55-03.00		
03.25-08.40			04.00-08.00		
09.00-22.30			12.00-19.00		
*Jakutsk	236	1271	Charkov	647	464
04.00-14.55			Murmansk	656	457
20.25-23.35			04.00-11.00,		
*Tashkent I,			14.00-21.00		
Uzbek	254	1181	Vilnus	665	451
00.25-10.00,			04.00-11.00,		
11.00-21.05			13.00-21.05		
*Krasnojarsk	263	1141	Stalino	710	422
Siberia			04.00-11.00,		
23.00-07.00			13.00-14.00		
09.00-17.30			15.00-21.05		
*Alma Ata,	272	1103	Tallin II	710	422
Kazkh			Stalinograd	737	407
00.45-07.30			Rostov	764	393
12.00-20.00			Kowno	827	362
Minsk	281	1068	daytime only		
02.55-18.00					

U. S. S. R.

	kc/s	m		kc/s	m
Dnepropetrovsk	890	337	Tallinn	1034	290
03.55-11.00, 15.00-18.20			03.00-12.00, 14.45-20.00		
Lvov	935	321	Krasnodar	1070	280
03.00-12.00, 13.00-17.00			Moghilev	1106	271
Voronezh	944	318	Kaliningrad	1142	263
Kichinev	998	301	Odessa	1169	257
02.55-10.30 13.00-18.00			Kursk	1214	247
*Ufa, Bashkir	1007	298	Tiraspol	1241	242
			Madona	1349	223
			Kaunas	1385	217

Short Wave Stations:

Moscow: 15/100 kW.

4380,	4460,	4560,	4634,	4675,	5065,	5455,	5480,
5912,	5919,	5922,	5930,	5940,	5947,	5955,	5960,
5965,	5970,	5995,	6000,	6030,	6035,	6040,	6045,
6050,	6060,	6070,	6090,	6100,	6110,	6120,	6135,
6150,	6160,	6165,	6170,	6175,	6195,	6210,	6405,
6480,	6540,	6852,	7095,	7100,	7110,	7115,	7125,
7150,	7155,	7165,	7177,	7180,	7190,	7200,	7210,
7215,	7225,	7235,	7245,	7255,	7260,	7265,	7280,
7290,	7295,	7300,	7310,	7320,	7325,	7330,	7340,
7360,	7370,	7380,	7400,	7420,	9145,	9390,	9450,
9470,	9480,	9490,	9500,	9515,	9550,	9555,	9565,
9580,	9593,	9610,	9620,	9630,	9640,	9650,	9655,
9660,	9670,	9675,	9680,	9690,	9700,	9710,	9720,
9740,	9750,	9760,	9780,	9790,	9800,	9880,	11630,
11690,	11700,	11710,	11720,	11725,	11740,	11750,	
11765,	11780,	11790,	11805,	11810,	11815,	11825,	
11830,	11840,	11850,	11860,	11870,	11885,	11900,	
11910,	11920,	11930,	11945,	11955,	11960,	11970,	
11980,	12020,	12270,	15000,	15100,	15110,	15120,	
15130,	15140,	15170,	15180,	15210,	15220,	15230,	
15275,	15280,	15300,	15310,	15320,	15330,	15340,	
15345,	15360,	15370,	15390,	15410,	15440,	15450,	
15470,	17710,	17740,	17780,	17810,	17820,	17830,	
17850,	17880,						

Other Short Wave Stations:

Ashkhabad (Turkmen): 6180, 9680 kc/s - Alma Ata (Kazakh): 5860, 5900, 6220, 9340, 9380 kc/s - Baku (Azerbaijan): 4958, 6195, 9840 kc/s - Batum (Georgian): 6203 kc/s - Blagoveschensk: 4960 kc/s - Bukhara (Uzbek): 6072 kc/s - Erivan (Armenia): 5740 kc/s - Frunze (Kirghiz): 4050 kc/s - Grozny: 5080 kc/s - Guryev (Kazakh): 5150 kc/s - Kaunas (Lithuania): 9685, 15430 kc/s - Khabarovsk: 6150 kc/s - Kiev (Ukraine): 6020, 7165, 9670, 11785 kc/s - Komsomolsk: 6055, 6115, 11750 kc/s - Krasnovarsk: 5910, 11820 kc/s - Leningrad: 9600 kc/s - Magadan: 5840, 6967, 11685 kc/s - Minsk (Belorussia): 9500 kc/s - Molotov: 5485 kc/s - Nikolaevsk-on-Amur: 4470 kc/s - Novosibirsk: 5225 kc/s - Petropavlovsk (Russia R.S.F.S.R.): 6070, 9545, 15110 kc/s - Samarkand (Uzbek): 5450 kc/s - Stalinabad (Tadzhik): 6700 - Sverdlovsk: 15310 kc/s - Tashkent (Uzbek): 6730, 6825 kc/s - Tbilisi (Tiflis): 5040 kc/s - Uzedro-Sakhalinsk: 5060 kc/s - Vladivostock: 5023, 9480 kc/s - Yakutsk: 5980, 15230 kc/s - Ulan-Bator (Mongolian Peoples Rep.): 5260, 6345 kc/s.

FOREIGN SERVICE

European Service:

Albanian:

15.00-15.30 (Sun. only) in 49, 41 m. b.

16.00-16.30 in 49, 41 m. b.

19.30-20.00 in 49, 41, 321 m.

Austria:

17.00-17.30 in 227, 216 m, in 49, 41 m. b.

19.30-20.00 in 227, 216 m, in 49, 41 m. b.

21.30-22.30 in 227, 216 m, in 49 m. b. Music.

Bulgarian:

05.00-05.30 in 41, 31 m. b.

11.00-11.30 in 31, 25, 19 m. b.

15.00-15.30 in 49, 41 m. b. Concert Wedn. only.

17.30-18.00 on 257 m, in 49, 41 m. b.

18.25-18.55 on 267, 245 m.

Czech:

06.30-07.00 in 41, 31, 25 m. b.

15.00-15.30 in 49, 41 m. b. Concert Thurs. only.

18.30-19.00 on 257 m, in 41 m. b.

20.30-21.00 on 470, 314, 197 m and 1102, 233, 202 m.

Slovak:

20.30-21.00 on 273 m and 1102, 233, 202 m.

Danish:

17.00-17.30 in 49, 41 m. b.

18.30-19.00 in 49, 41 m. b.

21.30-22.30 on 522, 375, 290, 216 m, in 49 m. b. Music.

Dutch:

17.30-18.00 in 49, 41 m. b.

20.00-20.30 in 49, 41 m. b.

21.30-22.30 on 522, 375, 290, 216 m, in 49 m. b. Music.

English:

07.30-08.00 in 49, 41, 31, 25 m. b.

18.00-19.00 in 49, 41 m. b.

19.00-20.00 on 238 m, in 49, 41, 31 m. b.

20.00-21.00 in 49, 41, 31 m. b.

21.00-22.00 on 238 m, in 49, 41, 31 m. b.

22.00-22.30 on 522, 375, 290, 216 m, in 49, 41 m. b.

Music:

Finnish:

09.30-10.00 on 375 m, in 41 m. b.

18.00-18.30 on 375 m, in 49 m. b.

19.00-19.30 on 375 m, in 49 m. b.

20.15-20.45 on 375, 290 m, in 49 m. b.

21.30-22.30 on 522, 375, 290 m, in 49 m. b. Music

French:

06.00-06.30 in 49, 41, 31, 25 m. b.

12.00-12.30 in 31, 25, 19 m. b.

18.00-18.30 on 233 m, in 49, 41 m. b.

19.00-19.30 on 240 m, in 49, 41 m. b.

19.30-20.00 on 240, 233 m, in 49, 41 m. b.

21.00-21.30 on 257, 240, 238 m, in 49, 41 m. b.

21.30-22.30 on 375, 290, 216 m, in 49, 41 m. b. Music.

German:

06.30-07.00 in 49, 41, 31, 25 m. b.

16.00-17.00 on 227, 216 m, in 49, 41 m. b.

17.30-19.30 on 227, 216 m, in 49, 41 m. b.

20.00-21.30 on 227, 216 m, in 49, 41 m. b.

21.30-22.30 on 522, 290, 227, 216 m, in 49 m. b. Music

Greek:

15.30-16.00 in 49, 41 m. b.

16.30-17.00 in 49, 41 m. b.

19.00-19.30 on 397, 321, 300 m, in 49, 41 m. b.

20.00-20.30 on 397, 363, 321, 300 m, in 41 m. b.

Hungarian:

06.00-06.30 in 41, 31, 25 m. b.

15.00-15.30 in 49 m. b. Concert Mo., Fri. only.

17.00-17.30 in 49 m. b.

18.00-18.30 on 556, 252 m.

Italian:

11.30-12.00 in 25, 19 m. b.

17.30-18.00 in 49, 41 m. b.

19.00-19.20 on 257 m, in 49, 41 m. b.

20.30-21.00 on 321, 243, 240 m, in 41, 31 m. b.

21.30-22.00 on 397, 363, 321, 300, 257, 243, 240 m, in 49, 41 m. b.

22.00-22.30 on 321, 300 m, in 49, 41 m. b. Music.

Norwegian:

Sun. 17.00-18.00 on 375 m, in 49 m. b.

W.: 17.30-18.00 on 375, in 49, 41 m. b.

18.30-19.00 on 375 m, in 49 m. b.

20.00-20.15 on 375 m, in 49 m. b.

21.15-21.30 on 522, 375, 290 m, in 49 m. b.

21.30-22.30 on 522, 375, 216 m, in 49 m. b. Music.

Polish:

07.00-07.30 in 49, 41, 31, 25 m. b.

18.00–18.30 on 321 m.
 16.00–16.30 Tues., Thurs, Sat. on 1322 m.
 16.15–16.45 Sun. on 407 m.
 20.50–21.20 Mo., Wedn., Fri. on 407 m.
Portuguese:
 21.00–21.30 in 49, 41 m. b.
Rumanian:
 05.30–05.55 in 41, 31 m. b.
 10.30–11.00 in 31, 25, 19 m. b.
 12.45–13.45 Sun. in 41, 31, 25 m. b.
 15.00–15.30 Concert Thurs., Sat. in 49, 41 m. b.
 17.00–17.30 on 257 m, in 49, 41 m. b.
 19.00–19.30 on 1935, 285 m daily exc. Sat; Sat. on 351, 206 m.
Spanish:
 20.00–21.00 in 49, 41 m. b.
 21.30–22.30 in 49, 41 m. b.
Swedish:
 W.: 17.15–17.30 on 375 m, in 49 m. b.
 Sun.: 17.00–18.00 on 375 m, in 49 m. b.
 19.30–20.00 on 375 m, in 49 m. b.
 20.45–21.15 on 522, 375, 290 m, in 49 m. b.
 21.30–22.30 on 522, 375, 290, 216 m, in 49 m. b. Music.
Turkish:
 10.00–10.25 in 25, 19 m. b.
 16.00–16.25 in 49, 41 m. b.
 18.00–18.30 on 300 m, in 49, 41 m. b.
 19.30–20.00 on 300 m, in 49, 41 m. b.
Yugoslavian:
 Serbian 15.30–16.00 in 49, 41 m. b.
 18.00–18.30 on 257, 243, 240 m in 49, 41 m. b.
 20.00–20.30 on 397, 363, 257, 243, 240 m, in 49 m. b.
 21.00–21.30 on 397, 363, 321, 300 m, in 49, 41 m. b.
Slovene:
 16.00–16.30 on 257 m, in 49, 41 m. b.
 20.30–21.00 on 397, 363, 300, 257 m, in 49, 41 m. b.
Macedonian:
 16.30–17.00 on 257, in 49, 41 m. b.
 18.30–19.00 on 457, 243, 240 m, in 49, 41 m. b.
Overseas Service:
To Near East in Persian:
 09.30–10.00 in 25, 19 m. b.
 15.00–15.25 on 1376 m, in 49, 41 m. b.
 16.30–17.20 in 49, 41 m. b.
 19.00–19.25 in 49, 41 m. b.
Arabic:
 15.30–16.00 in 49, 41 m. b.
 17.30–18.00 in 49, 41 m. b.
 18.30–18.55 on 300 m, in 49, 41 m. b.
To South East Asia 25, 19 m. b.:
 10.30–11.00, 12.45–13.15 Vietnamese.
 11.30–12.00, 13.30–14.00 Indonesian.
 14.00–14.45 English (to India).
 14.45–15.00, 15.45–16.00 Hindustani, Bengali.
 15.00–15.45 Bengali.
To Far East:
Chinese:
 22.30–23.00 on 1666, 547, 477, 457 m, in 49, 41, 31, 25 m. b.
 08.30–09.00 on 1666, 547, 477, 457 m, in 49, 41, 31 m. b.
 10.00–10.30 on 1666, 547, 477 m, in 49, 41, 31, 25, 19 m. b.
 11.00–11.30 on 1666, 547, 477, 457, 422 m, in 49, 41, 31, 25, 19 m. b.
 12.00–12.45 (Cantonese) in 25, 19 m. b.
 14.00–15.00 on 1666, 547, 477, 457, 422 m, in 49, 41, 31, 25, 19 m. b.
Japanese:
 09.30–10.00 on 547, 477 m, in 49, 41, 31 m. b.
 10.30–11.00 on 547, 477 m, in 49, 41, 31, 25 m. b.
 12.00–12.45 on 547, 477, 340 m, in 49, 41, 31, 25 m. b.
 13.15–14.00 on 547, 477, 340 m, in 49, 41, 31, 25 m. b.
 21.30–22.00 on 547, 477 m, in 49, 41, 31, 25 m. b.
Korean:
 09.00–09.30 on 1666, 547, 477 m, in 49, 41, 31, 25 m. b.
 11.30–12.00 on 1666, 547, 477 m, in 49, 41, 31 m. b.

12.45–13.15 on 1666, 547, 477 m, in 49, 41, 31 m. b.
 21.00–21.30 on 1666, 547, 477 m, in 49, 41, 31, 25 m. b.
 22.00–22.30 on 1666, 547, 477 m, in 49, 41, 31, 25 m. b.
Mongolian:
 09.30–10.00 on 1829, 457 m, in 31, 25 m. b.
 13.15–14.00 on 1829, 457 m, in 41, 31, 25 m. b.
To North America:
 23.00–23.30 in 49, 41, 31 m. b.
 23.30–00.30 in 49, 41, 31, 19 m. b.
 00.30–01.30 in 41, 31, 19 m. b.
 01.30–04.00 in 49, 41, 31 m. b.
 04.00–06.00 in 41, 31 m. b.
To Latin America:
 Portuguese: 23.00–24.00 in 41, 31 m. b.
 Spanish: 00.00–02.00 in 41, 31 m. b.

VATICAN STATE

Address: Vatican Radio, Vatican City. **Cable:** Vatican-radio.

Leading Personalities: Dir. Gen.: Rev. Prof. Antonio Stefanizzi S. J. Dir. of Progr.: Rev. Francesco Pellegrino S. J.

Medium Waves		Call letters	Power
773 kc/s	388 m*)	HV2	2 kW
1484 –	202.2 –	HV5	5 –
1529 –	196.2 –	HV100	100 – **)

*) daylight hours only. **) under construction.

Short Waves HVP 5 kW, HVJ 25 kW, HVM 50 kW, HVG 100 kW**)

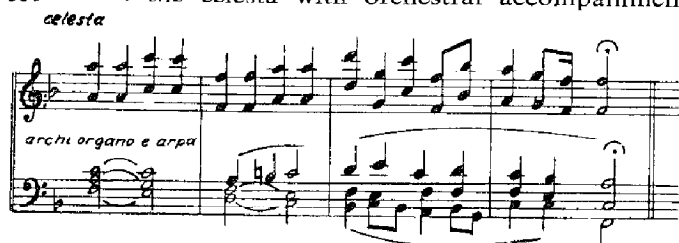
kc/s		m		kc/s		m	
3955	75.85	9550	31.41	15385	19.50		
5968	50.27	9646	31.10	17445	17.20		
6005	49.96	9660	31.06	17735	16.92		
6030	49.75	11685	25.67	17840	16.82		
6190	48.47	11740	25.55	21515	13.94		
7250	41.38	11940	25.13	21740	13.80		
7270	41.27	15095	19.87	25740	11.66		
7280	41.21	15120	19.84	25780	11.64		

Note: The wave-lengths are subject to change with seasonal variations, or to avoid interference.

Abyssinian	16.45 Tues. Fri.	on 41.21 31.41 25.67 25.55 196 m
Albanian	17.30 Tues. Thurs. Sat	on 41.21 31.41 25.67 25.55 196 m
Arabic	17.15 Tues. Sat. Sun	on 41.21 31.41 25.67 25.55 196 m
Bulgarian	17.15 Mon. Thurs.	on 41.21 31.41 25.67 25.55 196 m
Byelorussian	17.15 Fri.	on 41.21 31.41 25.67 25.55 196 m
Chinese	10.15 Thurs.	on 16.82 13.80 m
Croat	14.00 Wed.	on 31.41 25.67 25.55 19.84 196 m
Czech	17.00 Mo. Wed. Fri. Sun.	on 41.21 31.41 25.67 25.55 196 m
	12.30 D.	on 31.41 25.67 25.55 19.84 196 m
	14.00 Tues.	on 31.41 25.67 25.55 19.84 196 m
	19.30 D.	on 50.27 41.21 31.41 25.67 196 m
Dutch	14.00 Fri.	on 31.41 25.67 25.55 19.84 196 m
	18.00 Thurs. Sun.	on 41.21 31.41 25.67 25.55 196 m
English	15.00 D.	on 31.41 25.67 25.55 19.84 196 m
	18.15 D.	on 41.21 31.41 25.67 25.55 196 m
	15.30 Tues.	on 25.55 13.80 m For India, Pakistan and Ceylon.
French	11.45 D.	on 31.41 25.67 25.55 19.84 196 m
	14.30 D.	on 31.41 25.67 25.55 19.84 196 m
	18.45 D.	on 50.27 41.21 31.41 25.67 196 m
	06.30 Thurs.	on 19.84 16.82 13.80 m For W. Africa

Vatican State – Yugoslavia

German	
12.45 D.	on 31.41 25.67 25.55 19.84 196 m
14.45 D.	on 31.41 25.67 25.55 19.84 196 m
19.45 D.	on 50.27 41.21 31.41 25.67 196 m
Hungarian	
13.00 D.	on 31.41 25.67 25.55 19.84 196 m
21.00 D.	on 50.27 41.21 31.41 25.67 196 m
Italian	
13.30 D.	on 50.27 31.41 196.2 388.1 m
20.00 D.	on 196 m – H. Rosary
20.15 D.	on 50.27 41.21 31.41 25.67 196 m
15.30 Fri.	on 50.27 31.41 25.67 196 388.1 m
	Transmission for the ill
07.30 Wed. Sat.	on 19.84 16.82 m For Orient
10.30 Thurs.	on 16.82 13.80 m For Orient
Latin	
10.00 Sat.	on 50.27 31.41 m
11.30 Thurs.	on 31.41 25.67 25.55 19.84 196 m
17.15 Wed.	on 41.21 31.41 25.67 25.55 196 m
21.15 Sun.	on 50.27 41.21 31.41 25.67 196 m
Latvian	
17.30 Mo. Fri.	on 41.21 31.41 25.67 25.55 196 m
Lithuanian	
14.00 Sun.	on 31.41 25.67 25.55 19.84 196 m
18.00 Mo. Wed. Sat.	on 41.21 31.41 25.67 25.55 196 m
Polish	
12.15 D.	on 31.41 25.67 25.55 19.84 196 m
15.15 D.	on 31.41 25.67 25.55 19.84 196 m
19.15 D.	on 50.27 41.21 31.41 25.67 196 m
Portuguese	
20.00 D.	on 50.27 41.21 31.41 25.67 196 m
Rumanian	
14.00 Mo.	on 31.41 25.67 25.55 19.84 196 m
17.30 Wed. Sun.	on 41.21 31.41 25.67 25.55 196 m
Russian	
17.45 D.	on 41.21 31.41 25.67 25.55 196 m
Slovak	
12.00 D.	on 31.41 25.67 25.55 19.84 196 m
14.00 Sat.	on 31.41 25.67 25.55 19.84 196 m
19.00 D.	on 50.27 41.21 31.41 25.67 196 m
Slovene	
17.00 Tues. Thurs. Sat.	
Sun.	on 41.21 31.41 25.67 25.55 196 m
Spanish	
14.15 D.	on 31.41 25.67 25.55 19.84 196 m
20.45 D.	on 50.27 41.21 31.41 25.67 196 m
21.30 Thurs.	on 25.55 19.84 m
Ukrainian	
14.00 Thurs.	on 31.41 25.67 25.55 19.84 196 m
18.00 Tues. Fri	on 41.21 31.41 25.67 25.55 196 m
Musical Concert	
16.30 Thurs.	on 50.27 41.21 31.41 25.67 196 m
Sunday Services	
08.00	on 50.27 31.41 25.67 19.84 m
Broadcast Mass in Latin Rite, celebrated for the intentions of Holy Father. Music during the Mass. Gospel homily for 15 mins, after Mass, alternately in different languages.	
09.00	on 50.27 31.41 25.67 19.84 m
Oriental Liturgy. Homily in respective languages.	
10.15	on 50.27 31.41 25.67 19.84 m
Religious transmission.	
Interval-Signal: Carillon-Melody "Christus Vincit" executed on the celesta with orchestral accompaniment.	



Announcement: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".
Opening-Signal: The bells of St. Peter's.
Message to Listeners: Listeners' comments welcomed and answered. Return postage not required.

YUGOSLAVIA

Address: Yugoslav Radiodifusion, Knez Mihajlova 19, Belgrade. For Listener's Letters: Odbor za radiodifuziju, Knez Mihajlova 19, p.f. 284 Beograd.

Leading Personalities: The President of the Broadcasting Committee: I. Sarajcic. The Vice-President of the Broadcasting Committee: D. Markovic. Director of Radio Yugoslavia: Miss Olga Kreacic. The Secretary of the Broadc. Committee: Miss Olivera Vojvodic.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Belgrade I	683	439.2	150	Maribor	1412	212.4	5
Belgrade II	1484	202.1	1.5	Novi Sad	1268	236.6	100
Zagreb	1133	264.7	125	Bitola	1484	202	0.5
Zagreb II	1484	202	1.5	Pristina	1412	212.4	20
Ljubljana	917	327.1	135	Dubrovnik	1484	202	0.8
Sarajevo	611	490.9	20	Rijeka	1412	212	15
Skopje	809	370.8	20	Osijek	1484	202.1	0.8
Titograd	881	340.5	20	Nis	1484	202	2
Adjovscina	809	370.8	0.8				

Belgrade I: W.: 04.00–06.30, 11.00–23.00. Sun.: 04.30–News: 04.30, 05.15, 12.00, 14.00, 16.00, 21.00, 23.00.

Belgrade II: W.: 09.00–11.00, 14.00–17.00. Sun.: 08.00–17.00. News: 09.00.

R. Zagreb: W.: 04.00–07.00, 12.00–23.00. Sun.: 05.30–23.00. News: 04.15, 05.15, 07.00, 14.00, 12.00, 16.30, 21.55.

R. Zagreb II: D.: 13.58–20.00. News: 16.30.

R. Ljubljana I: W.: 04.30–06.30, 11.00–23.00. Sun.: 05.00–23.00. News: 04.45, 05.45, 11.30, 14.00, 16.00, 21.00.

R. Skopje: W.: 04.25–07.00, 11.00–22.00. Sun.: 04.25–22.00.

R. Sarajevo: W.: 05.00–06.30, 12.00–22.00. Sun.: 05.00–22.00.

R. Titograd: W.: 05.00 06.35, 13.25–22.00, Sun.: 05.00–22.00.

R. Novisad: W.: 04.55–20.45. Sun.: 04.55–20.45.

R. Pristina: W.: 04.30–06.00, 12.00–22.00. Sun.: 05.00–22.00.

RADIO YUGOSLAVIA – FOREIGN SERVICE

Stations: 10/100 kW (1268 kc/s 20 kW).

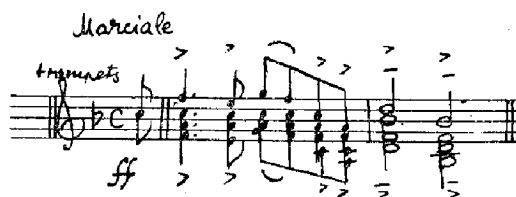
kc/s	m	kc/s	m	kc/s	m	kc/s	m
6100	49.18	7240	41.44	11735	25.56	17800	16.85
6150	48.78	9505	31.56	11895	25.22	21680	13.84
7200	41.67	9620	31.19	15246	19.68	1268	236.6

R. Yugoslavia inform, that they not are able to send us the programme of R. Yugoslavia for 1954, as they have not yet settled some technical questions (15/11 1953).

Announcement: Medium waves: "Ovde Radio Beograd". "Ovde Radio Zagreb".

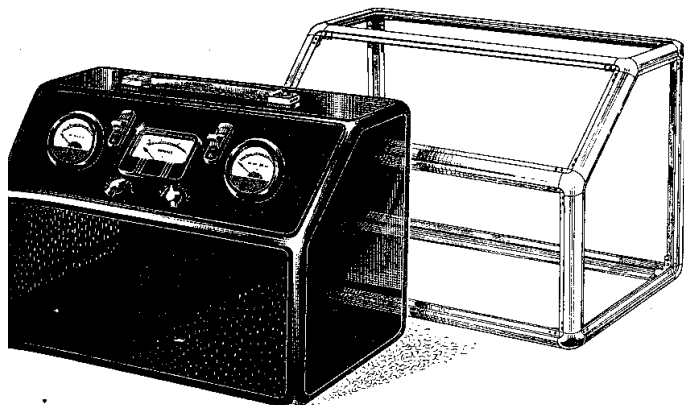
Shortwaves: "Here is Belgrade, Radio Yugoslavia speaking". "Ici Belgrade Radio Yugoslavie" etc.

Interval-Signal: Musical signal of Radio Yugoslavia and Radio Belgrade, the beginning of the "Internationale".



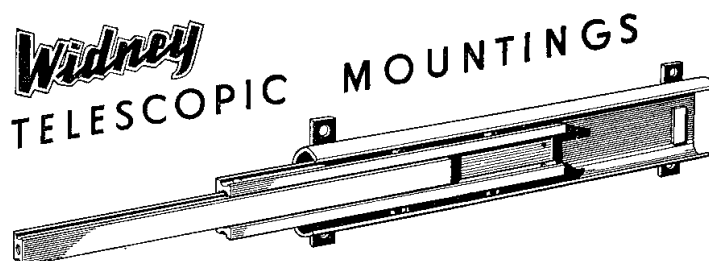
Verification by letter.

Widney-DORLEC



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The Widney-Dorlec Cabinet System consists of a series of prefabricated diecast corners, extruded sections and various other components which enable modern fully radiused cabinets, etc., etc., to be built without special tools.



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Algeria - Angola

AFRICA

ALGERIA (French).

RADIO ALGERIA (Government)

Address: Radiodiffusion Francaise, 10 rue Hoche, Alger.

Leading Personalities: Dir. Regional: M. Gayraud, Eng. Regional: M. Godim. Administr.: Chief Editor: M. Godiveau. Dir. Progr.: M. Vandelle. Dir. Arabic Progr.: M. Grinda.

HOME SERVICE

French Network: W.: 06.30-08.30, 12.00-14.00 (Thurs. Sat. 15.30), 18.00-23.00 (Sat. 24.00), Sun.: 07.00-23.00.

	kc/s	m	kW	
Algiers I	980	306.1	75	
Constantine I	1142	262.7	20	
Tlemcen	1421	211.2	0.75	07.30-08.30 only
Oran I	1484	202.2	1	40 kW 1954
Bone	1484	202.2	0.2	18.00-23.00 only
Algiers OC I	6160	48.70	25.0	12.00-14.00 (Thurs. Sat. 15.30)

News: 06.30(W.), 07.30, 12.00, 12.45, 14.00, 18.30, 20.00, 22.50. "La journée dans le monde: D.: 22.50.

Arabic Network: W.: 06.30-07.30, 11.45-13.45 (Thurs. 15.00), 18.00-22.45. Sun.: 07.00-09.15, 11.45-15.00, 17.00-22.45.

Algiers II	890 kc/s	337.1 m	50.0 kW	
Constantine II	1304	230.0	20.0	
Oran II	1304	230.0	0.2	40 kW 1954
Tlemcen	1421	211.2	0.75	
Algiers OC II	6160	48.70	25.0	19.30-22.45

News: 07.15, 12.00, 12.25, 19.30, 20.00, 22.10.

Kabyl Network: W.: 06.30-07.30, 12.00-13.00 (Fri. 14.00), 18.00-19.25. Sun.: 07.00-08.00, 12.00-13.30, 18.00-19.25.

	kc/s	m	kW	
Algiers III	1421	211.2	5.0	
Fort National	1484	202.2	0.75	18.00-19.25 only
Algiers OC I	6160	48.70	25	18.00-19.25 only

News: 07.20, 12.05, 18.00.

Announcement: "Ici Alger Radiodiffusion Francaise."

Verification by letter or QSL-card.

ANGOLA

RADIO CLUBE DE ANGOLA (Private)

Address: Caixa Postal 229, Luanda. Cable: RADANGO-LA.

Leading Personalities: Pres. Com.: M. A. e Castro. Secretary: Eng. A. M. da Costa. Treasurer: H. Moreira.

HOME SERVICE in Portuguese:

Call	kc/s	m	kW	Call	kc/s	m	kW
CR6RC experimental	0.05			CR6RL	9632	31.15	1
CR6RA 4869	61.61	0.25		Voz de			
CR6RN 7142	42.01	1		Angola	11840	25.34	10*)

W.: 06.00-07.15, 11.00-13.30, 17.30-21.30 (Sat. 22.30). Sun.: 08.00-10.00, 11.00-13.30, 16.30-20.30

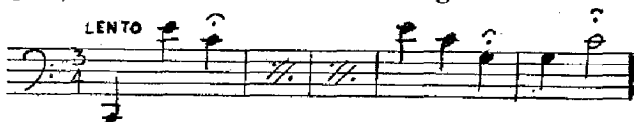
*) D.: 18.30-22.30.

Time Signals and News: W.: 06.30, 12.00, 19.30.

Portuguese Music: W.: 18.30, (Sat. also 22.10), Sun.: 20.15.

Vozes de Portugal: W.: 06.40, Sun.: 18.30. The normal programme also in 49 m at 11.30-13.30 and by "Voz de Angola" at 18.30-22.30.

Announcement: "Aqui Portugal, Luanda, Radio Clube de Angola, A Vossa Estacao". Interval Signal:



Verification by QSL-card and by radio Fridays at 20.30.

RADIO CLUB DE BENGUELA (Commercial).

Address: Caixa Postal No. 19, Benguela. A.O. Portuguesa.

Leading Personalities: Pres.: Humberto Lopes. Vice-Pres.:

60

Dr. Anibal de Vasconcelos. Treasurer: Aguinaldo Vasques Barata. Secretary: Antonio Bernardo Martins.

HOME SERVICE in Portuguese & English:

CR6RF 5042 kc 59.48 m 1 kW - CR6RB 7161 kc 41.89 m 0.15 kW inactive at present - CR6RB 9502 kc 31.57 m 1 kW.

W.: 06.00-07.00, 11.15-12.45, 17.00-20.00. Sun.: 10.00-14.00, 16.30-20.00. News: 11.20, 18.00.

Announcement: "Senhores ouvintes muito bom dia, senhores ouvintes muito boa tarde, senhores ouvintes muito boa noite, daqui fata-thes Radio Club de Benguela".

Interval-Signal: Xylophone. Verification by QSL-card.

Future-Plans: 10 kW transmitter in 1954.

RADIO CLUB DO BIE

Address: Caixa Postal 33, Silva Porto.

Home Service in Portuguese: CR6RO 7203 kc/s 41.65 m 1 kW 06.15-06.45, 11.30-12.30, 16.30-18.00, 19.00-20.30. News: 11.45, 17.15.

Announcement: "Radio Club do Bié".

Verification by QSL-card.

RADIO DIAMANG (Private)

Owned by Companhia de Diamantes de Angola, Dundo.

Address: Radio Diamang, Dundo.

Leading Personality: President: Eng. R. S. de Sousa.

HOME SERVICE: W.: 18.00-19.30. Sun.: 11.00-12.30.

	kc/s	m	kW		kc/s	m	kW
CR6RG	4770	62.89	1	CR6RR	7070	42.42	1
CR6RR	6870	43.63	1	CR6RS	8300	36.10	1
CR6RI	9340	32.10	1				inactive

Announcement: "Aqui Dundo, Angola, Africa Ocidental. Portuguese, Estacao Emissora CR6RG, Radio Diamang".

Interval-Signal: At opening notes from "quissange" played on native musical instrument, followed by the march "Calling all Workers". At close down chimes followed by Portuguese National Anthem.

Verification by QSL-card.

RADIO CLUBE DE HUAMBO

Address: Caixa Postal 125, Nova Lisboa.

HOME SERVICE in Portuguese:

CR6RD 7105 kc 42.22 m 0.15 kW } W.: 11.00-13.00, CR6RQ 9705 kc 30.91 m 1 kW } 17.30-21.00. Sun.: 12.15-16.45. News: 11.30-18.45.

Announcement: "Aqui Nova Lisboa, Angola". Interval-Signal: Notes from "Blue Danube". Verification by QSL-card.

RADIO CLUBE DE HUILA

Address: Caixa Postal 111, Sá da Bandeira.

HOME SERVICE in Portuguese:

CR6RH 8300 kc/s 36.10 m 0.05 kW
CR6RJ 9050 - 33.15 - 0.1 -
W.: 11.15-12.45, 18.00-21.00. Sun.: 11.15-13.30. News: 11.45-18.45.

Announcement: "Radio Clube da Huila".

Interval-Signal: First movement from "Minho".

Verification by QSL-card.

RADIODIFUSORA LOBITO (Commercial)

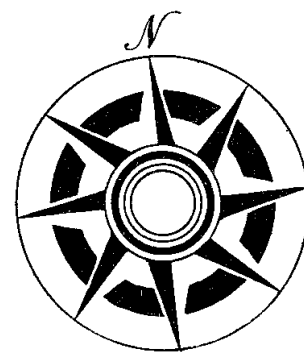
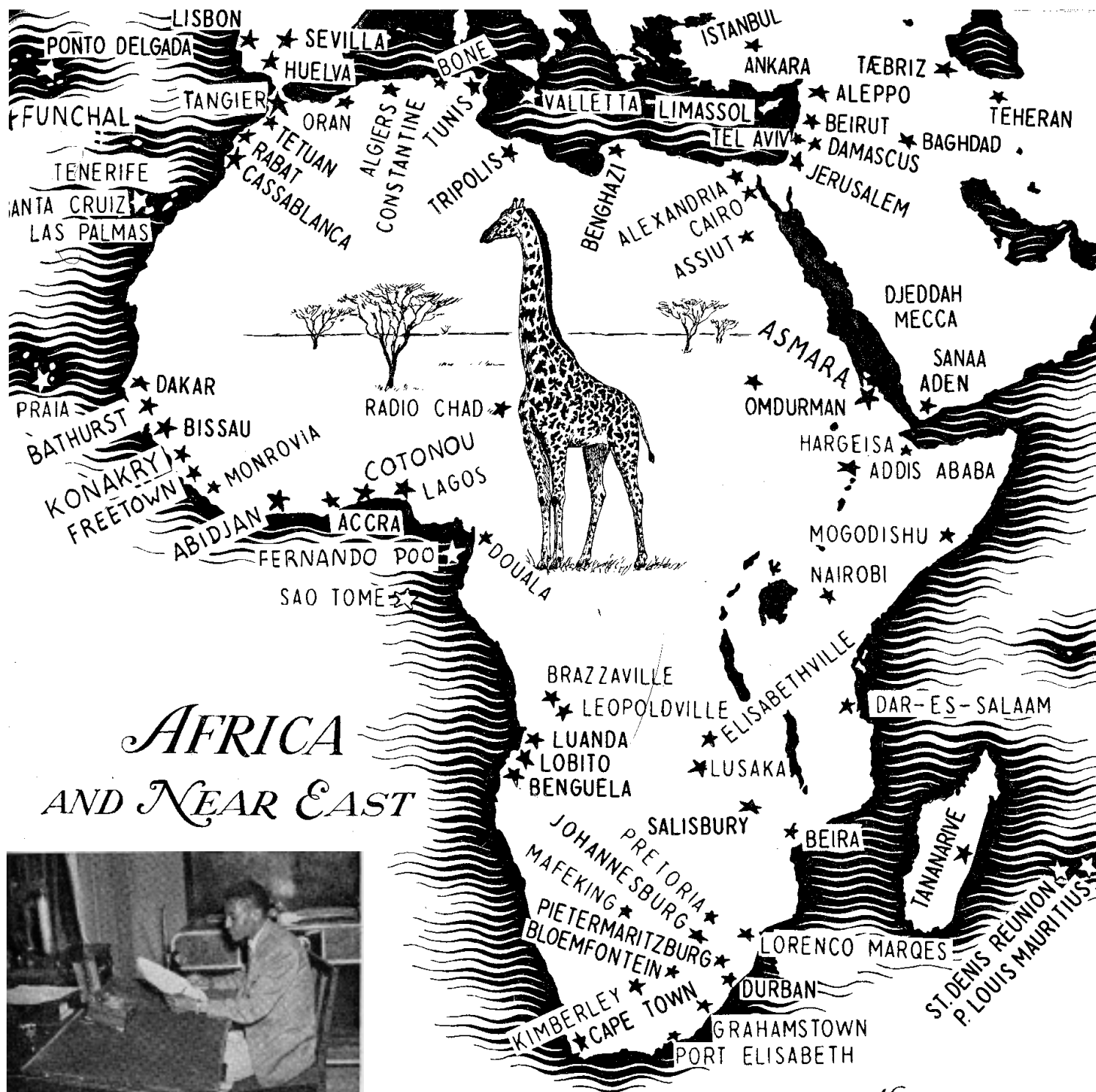
Address: Estacao Radio Difusora CR6AA, P.O.Box 103, Lobito. Cable: Radiodifusora.

Leading Personalities: Owner: Alvaro de Carvalho. Chief Engineer: A. Carvalho. Announcers: J. A. Cabrita, Miss M. Antonieta.

HOME SERVICE - CR6AA - 1 kW.

7106 kc/s 42.22 m - 4806 kc/s 62.43 m (irreg.) - 5033 kc/s 59.59 m 06.00-07.00 (News. 06.15) on 7106 kc/s in Portuguese; 11.30-12.45 (News. 12.15) on 7106, 5033 kc/s and 16.00-22.00 (News. 17.00, 20.00) on 7106 kc/s in Portuguese and English. -

Announcements: Portuguese: "Lobito, Angola, Africa Ocidental Portuguesa. Estacao Radio Difusora CR6AA".



Addis Ababa: One of the announcers.

Dar-es-Salaam Radio: Mr. Edmund Fo, Dar-es-Salaam's Football commentator, doing an outside broadcast from the Itala Stadion.

Angola – Cameron

English: "This is Lobito, Angola, Portuguese West Africa, Short Wave Broadcasting Station CR6AA".

Interval-Signal: 3 chimes. – **Verification** by QSL-card.

RADIO CLUB DE MOCAMEDES

Address: Caixa Postal No. 174, Mocamedes.

Home Service: 11.45–12.30, 19.30–20.30.

CR6RM 7230 kc/s 41.49 m 1 kW. – **Verification** by letter.

RADIO CLUBE DE MALANGE

Address: Caixa Postal no. 83, Malange.

Leading Personalities: Pres.: A. M. Lopes. Secretary: A. M. Correia. Announcer: A. D. Cochat.

HOME SERVICE: *Portuguese:* CR6RE 7245 kc 41.41 m 0.2 kW W.: 11.30–13.00, 17.00–19.30. Sun.: 07.00–08.30, 12.30–14.00. *News:* 12.15, 18.00.

Announcement: "Radio Clube de Malange".

Interval-Signal: The march "Opiranga". **Verification** by QSL-card. **Future-Plans:** Increase of Power to 1 kW.

RADIO CLUBE DO SUL ANGOLA

Address: Caixa Postal 56, Lobito.

Home Service: CR6RK 3420 kc/s 87.72 m 0.75 kW.

Daily Programmes: 11.00–13.00, 16.30–18.30, 20.00–22.00.

News: 11.30, 18.15, 21.00.

Interval-Signal: 4 notes on guitar from "Maria da Fonte".

RADIO CLUBE DO CUANZA SUL

Address: Caixa Postal Nr. 10, Novo Redondo.

HOME SERVICE in *Portuguese:* CR6RP 7805 kc/s 38.43 m 0.2 kW 11.15–11.45, 17.30–19.30. *News:* 12.15, 18.15.

Announcement: "Radio Clube Cuanza Sul".

Interval-Signal: Guitar. **Verification** by QSL-card.

Times and frequency subject to alteration April/May.

AZORES

EMISSION NACIONAL (Government)

Address: Emisora Regional dos Açores, Emisora Nacional, Ponta Delgada, San Miguel.

Home Service: CSA93 4845 kc/s 61.92 m 1 kW
CSA92 11090 – 27.05 – 1 –

Daily Programmes in *Portuguese* (S. one hour earlier): 4845 kc/s: 21.15–24.00. 11090 kc/s: 20.00–21.00

News: 20.30, 22.30 exc. Sun. Weather report daily 18.00, 22.00 on 4845, 11090 kc/s.

Announcement: "Aqui Portugal Ponta Delgada, Emisora Regional dos Açores da Emissora Nacional".

Verification by letter.

EMISSION DO CLUB AZAS DO ATLANTICO (Private)

Address: Aeroporto de Santa Maria.

Home Service: 23.00–01.00. *News:* 24.00.

CSB81 1571 kc/s 191 m 1 kW. – **Verification** by letter.

RADIO CLUBE DE ANGRA, Angra (Private)

CSB80 1484 kc/s 202.2 m 0.15 kW

U.S.A. Air Base No. 4, Terceira (Military)

CSB82 650 kc/s 461 m 2 kW

BECHUANALAND (British Protectorate)

Address: ZNB Broadcasting Station, c/o Director of Public Works, Box 106, Mafeking.

Stations: ZNB 8230 kc/s 36.45 m 0.25 kW
5900 – 50.84 – 0.25 –

Daily Programmes: 11.00–12.00, 17.00–19.00 (Sun. 18.00–19.00). *News:* 11.15, 17.00. Relay S.A. Broadc.

Verification by QSL-card. Return postage required.

BELGIAN CONGO

THE INTERNATIONAL GOODWILL STATION OTC (see Belgium)

RADIO CONGO BELGE (Government)

Address: P.O.Box 3171, Leopoldville, Kalina.

Leading Personalities: Dir.: Karel Theunissen. Vice Dir.:

Gustave van Herreweghe. Chief of African Progr.: A. Seohy. Chief French Progr.: L. Lhermitte. Chief Flemish Progr.: W. Vertommen. Chief News Service: Beckers. Chief Musical Progr.: F. van Durme.

HOME SERVICE:

For Europeans (F=French, Fl=Flemish, P=Portuguese):

Call.	kc/s	m	kW	
OTM1	6295	47.66	3	05.00–06.00, 15.30–21.00
			0.8	10.15–12.30

OTM2	9380	31.99	20	05.00–06.30
			50	15.30–21.00

OTM4	11720	25.60	50	10.15–12.30
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News: 05.00(F), 05.10(F.), 06.00(F), 06.10(Fl), 10.30(F), 10.38(Fl), 11.30(F), 11.40(Fl), 11.50(P), 17.00(F & Fl), 18.00(Fl), 18.45(F), 20.45(F), 20.53(Fl).

For Natives in Belgian Congo & Ruanda-Urundi:

Call.	kc/s	m	kW	
OTH	6140	48.86	10	16.30–18.30(d)
OTH	9210	32.57	20	10.30–12.00(W.), 16.30–18.30(d)

OTH	11670	25.70	20	10.30–12.00(Sun. only)
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News: 17.00–17.15 in *Lingala* (Mo. Fri.), *Kiswahili* (Tues.), *Tshiluba* (Wed.), *Kikongo* (Thurs.), *French* (Sat. & Sun.), 18.15–18.30 *French*(d).

Announcement: In *French:* "Ici Radio Congo Belge". In

Flemish: "Hier Radio Belgische Kongo".

Interval-Signal: Native xylophone beat.



Verification by QSL-card.

Future-Plans: 3 kW m.w.st. in Elisabethville 1954. 9210 kc/s 50 kW 1954. 3 kW m.w.st. in Luluabourg, Costermansville, Stanleyville, Usumbura, Coquilhatville.

RADIO COLLEGE (Private) Belgian Congo East

Address: Radio College, B.P.296, Elisabethville.

Leading Personality: R.R. P. P. Salesiens, Ecole Officielle

pour Garçons Européens, Collège Saint François de Sales.

Stations: Elisabethville OQ2AC, 0.25 kW

3390 kc/s 88.50 m – 7200 kc/s 41.67 m – 4980 kc/s 60.25 m

Daily Programmes in *French*. Fri. in *Flemish*. W.: 16.30–17.30. Sun.: 07.00–10.00. Mo.: Seance Recreative. Tues.:

"Demi-heure des Jeunesse Musicales d'Elisabethville".

Thurs.: "Quart d'Heure Collegien". Fri.: Progr. in *Flemish*.

Sat.: Emission destinée aux Anciens Elèves du Collège".

Sun.: High Mass 07.00–08.00. Concert 08.00–10.00.

Announcement: *French:* "Ici Radio-College, station de radio-diffusion privée située au Collège Saint François de Sales, a Elisabethville, Congo-Belge".

Flemish: "Hier Radio-College, eigen zender van het Sint Franciscus College te Elisabethstad, Belgisch Kongo".

Interval-Signal: Open with "Marche du Baron Tzigane (Joh. Strauss). Close with "Marche Indigo" (H.M.V. JO 160).

Verification by QSL-card. Return postage preferred.

RADIO LEO (operated by the Jesuits of Leopoldville – religious).

Address: Collège Albert Ier, Kalina Léopoldville.

Stations: OQ2AA 0.25 kW. *French.* 08.00–10.00(sun.only).

11720 kc/s 25.60 m 15170 kc/s 19.77 m

Announcement: "Ici Radio Léo, Léopoldville, Congo Belge, station privée de Radiodiffusion".

RADIO ELISABETH – (financed by the suscriptions of listeners).

Address: A.F.M. Schovens, Box 1039, Elisabethville.

Stations: Elisabethville, OQ2AB 0.25 kW

7150 kc/s 41.96 m – 11900 kc/s 25.21 m 13.30–16.00 (Sun. only).

– **Verification** by QSL-card.

CAMEROON (French)

Address: Bureau de l'Information, Service de la Radio-diffusion, Douala.

Canary Islands – French Equatorial Africa

Station: 9657 kc/s 31.07 m – 7280 kc/s 41.21 m – 1 kW
HOME SERVICE in *French*:
 17.30–20.15 (Sun. also 10.00–13.00). *News*: 18.00, 20.00.
Announcement: "Ici R. Douala". **Verification** by letter.

CANARY ISLANDS

RADIO CLUB TENERIFE (Cultural and Commercial)
Address: Apt.do. de Correos 225, S. Cruz de Tenerife.
Leading Personalities: Pres.: J. G. Sanjuan. Secr.: D. Exposito. Techn. Dir.: P. Afonso. Dir. of Progr.: M. R. Vela.
HOME SERVICE (Spanish):

	kc/s	m	kW		
EJ43	1412	212.4	0.4	12.30–15.00,	18.00–23.00.
EA8AB	7295	41.12	0.25	21.00–23.00.	

News: 13.45 (1412 kc/s only), 21.45. *Folklore-music*: Mo. 22.00.

Announcement: "R. Club Tenerife, S. Cruz de Tenerife."
Interval-Signal: At the opening "Los Voluntarios". –
Time-Signal (chimes): 14.00, 22.00. – "Islas Canarias": 22.01. **Verification** by QSL-card.

CAPE VERDE ISLANDS

RADIO CLUBE DE CABO VERDE, Praia, Isle of Santiago.

Leading Personalities: Pres.: M. T. Dias. Vice-Pres.: A. J. Barbosa da Silva.

HOME SERVICE in *Portuguese*:

CR4AA 5895 kc/s 50.90 m 0.4 kW – 7135 kc/s 42.05 m 3 kW: 20.00–22.00. *News*: 20.45, 21.30. *Weatherreport*: 21.15. **Verification** by QSL-card.

RADIO CLUBE MINDELO, St. Vicente

Leading Personality: Pres.: Dr. A. Pereira.

Home Service in *Portuguese*:

CR4AB 7180 kc/s 41.78 m 0.06 kW 22.00–24.00

News: 22.05–22.20.

Verification by letter.

DAHOMAY (French West Africa) Govt.

RADIO COTONOU,

HOME SERVICE in *French* and *Dahomey dialects*:

1484 kc/s 202.2 m 1 kW – 7315 kc/s 41.00 m 0.25 kW
 06.45–07.00, 17.25–18.30 (Sat. 19.00).

EGYPT

EGYPTIAN STATE BROADCAST

Address: Broadcasting House, Cairo.

Stations: *Medium Waves*:

	kc/s	m	kW		kc/s	m	kW
Cairo II	620	483.9	20	Assiout	980	306.0	1 *)
Cairo I	773	388.0	50	Minia	1079	297.8	1 *)

*) Relay Cairo I.

Short Waves: Cairo=100 kW.

6085 kc 49.30 m – 9475 kc 31.66 m – 11965 kc 25.07 m

HOME SERVICE:

Arabic Programme:

04.00–07.00 773,6085,11965 15.00–16.45 773,6085,11965

08.00–10.00*620,6085,11965 16.45–17.00 773

12.00–13.00 773,6185,11965 17.00–21.20*773,6085,11965

13.00–13.30*773 * approximately

European: English, French, Greek, Italian, German

10.30–13.00 on 620 kc. – 17.00–18.00 on 620 kc. – 18.00–22.00 on 620, 9475 kc.

FOREIGN SERVICE (Middle Eastern Programme)

13.00–13.15 *News* in *Hebrew* on 6085, 11965 kc/s.

16.45–17.00 *News* in *Turkish* on 620, 6085, 11965 kc/s.

Announcement: *English*: "This is Cairo Calling".

Arabic: "Hona El Kahera".

Interval-Signal: Camell bells. **Verification** by QSL-card.

Future-Plans: Short Wave Services to N. and S. America.

ERITREA

RADIO MARINA, Massauah (American Army)

1000 kc/s 300 m 0.5 kW 03.30–24.00.

Relay of American stations or light entertainment.

News: 09.00–09.15.

ETHIOPIA

RADIO ADDIS-ABEBA (Government)

Address: Ministry of Press and Information, P. O. Box 1364, Addis Abeba. – **Leading Personality:** Ministry of Press and Information: H. E. A. Makonnen Habte Wold.

Station: *Addis Abeba*:

ETHA 9620 kc 31.19 m 1 kW. ETAA 15054 kc 19.93 m 3 kW.

HOME SERVICE in *Amharic*. *News* and *Ethiopian music*.
 W.: 11.00–12.00, 16.30–18.00. Sun.: 06.30–07.30, 16.30–18.00.

FOREIGN SERVICE

English:

04.30–05.00 *News*, *Ethiopian Music* for America, Europe.

10.00–11.00 *Ethiopian Music* and *news*, India.

15.30–16.30 for Middle East, East Afric. *Ethiopian News* and *Music*.*

18.15–19.15 *Ethiopian news*, *Music* for W. Africa, Europe.

Tues.–Sat. 23.45 rebroadcast of UN-programme.

Tues. 15.30–16.00. Sun. 16.00–16.30.

*) Exc.: Tues. the first half hour; Sun. the last half hour only.

Arabic:

18.00–18.15 *News*, *Music* for Middle East.

Announcement: "Radio Addis Abeba – The Voice of Ethiopia". **Verification** by letter or postcard. –

FRENCH EQUATORIAL AFRICA

CENTRE DE BRAZZAVILLE

Address: Radio Brazzaville and Radio A.E.F., Box 108, Brazzaville. *Cable:* Infolib.

Leading Personalities: Director: Mr. A. Bazire. Chief Engineer: Mr. H. F. Defroyenne. Chief of Foreign Transmissions: Mr. L. C. D. Joos. Chief Editor: Mr. L. Renault. Danish Progr.: Mr. Chr. Adigard des Gautries.

STATIONS:

Poste National: 9440 kc/s 31.78 m 7 kW – 11970 kc/s 25.06 m 50 kW – 15595 kc/s 19.23 m 50 kW.

Radio A.E.F.:

1484 kc/s 202 m 0.8 kW 9970 kc/s 30.08 m 1.5 kW

6024 – 49.80 – 4.5 – 17840 – 16.82 – 1.5 –

Radio Chad: 15595 kc/s 19.23 m 4.5 kW.

Poste National:

05.00–07.20 on 11970, 9440. *News* in *French* to Europe,

N. East 05.00, 06.00, 07.00. *News English* U.S.A. 05.30.

10.00–12.20 (Sun. 09.00–12.20) on 15995, 9440 kc. *News*

French Europe, N. East 11.30, 12.15. *News English* Africa,

N. East 10.15.

16.00–17.55 (Sun. 15.00–17.55) on 11970, 9440 kc/s. *News*

in *French* to F. East 17.00. *News* in *English* 16.00.

18.00–21.00 on 11970, 9440 kc/s. *News French* to Europe,

Africa 18.30, 20.30. *News* in *English* 18.15, 20.50. *News*

in *Portuguese* 19.15. *Africa today*: Sun. 18.15.

21.05–23.00 on 11970, 9440 kc/s *News French* N. America

21.15. *News English* E.U.S.A. 22.45. *Africa today* Sun.

22.45 – 23.05–01.40 on 11970, 9440 kc/s. *News French*

S. America 01.15. *News Portuguese* Africa, Portugal, Bra-

zil 24.00. – *News Spanish* S. America 01.00.

English Mailbag: Thurs. at 05.25, 18.25, 22.55 after the

news in *English*. Every Wednesday at 20.00 15 minutes

in either *Danish* (every 2 weeks), *Swedish* (every 4 weeks)

or *Dutch* (every 4 weeks). All these transmissions are

on 11970, 9440 kc/s. Other programmes mainly music.

Radio AFF (for local listeners).

11.30–13.15 (Sun. also 14.15–16.00), 17.00–20.05 (Sat.

21.00).

News in *French*: 12.00, 19.00. *Play*: Sun. 15.00. *African*

Gold Coast – Madagascar

Music and entertainment in French and Vernacular: 17.00–18.00. From 18.00–20.00 Progr. in French.

Radio Chad

"Radio Chad" is an outlet of the new local station "Radio AEF", which transmits on 15595 kc/s in Arabic from 05.30–06.30, 18.00–18.35. News and Music for the inhabitants of the Moslem territory of Chad.

Announcement: In French: "Radio Brazzaville, Poste National Français". In English: "Radio Brazzaville, the French National Broadcasting Station in Fr. Equ. A.".

Interval-Signal: When the station switches over from one direction to another a call signal of five different notes is played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box.

Verification by QSL-card. Return postage should be enclosed.

GOLD COAST

GOLD COAST BROADCASTING SERVICE (Government)

Address: Information Services Department, P. O. Box 745, Accra. *Cable:* "Information".

Leading Personalities: Dir. of Information Services: Major V. J. A. Lillie-Costello, O. B. E., M. C. Deputy Dir. Information Services: R. J. Moxon M. A. (Cantab). Chief Eng.: A. W. Busby. Senior Progr. Officer (Acting): L. Pearce.

HOME SERVICE:

ZOY: 4915 kc 61.04 m 5 kW – 6200 kc 48.39 m 1.3 kW

English:

1.1.–31.8: D.: 11.30–12.00, 15.00–16.15, 17.00–18.00.

1.9.–31.12: D.: 12.00–13.00, 14.30–15.45, 16.30–18.00.

News: 12.45, 17.45.

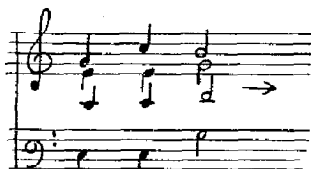
Vernacular: (Hausa, Ewe, Twi, Ga, Fante, Dagbani):

1.1.–31.8: D.: 12.00–12.30, 16.15–17.00.

1.9.–31.12: D.: 11.30–12.00, 15.45–16.30.

Announcement: "This is the Gold Coast Broadcasting Service" or "This is Accra Calling".

Interval-Signal: G.C.B. played on piano.



Future-Plans: A new 20 kW s.w. transmitter to be installed towards the end of 1954 for improved National coverage.

GUINEA (Portuguese) Commercial

Address: Emissora da Guiné, Estacao CQM, Bissau.

Leading Personalities: Pres.: T. Xavier das Mercedes Barreto.

Stations: CQM4 5838 kc/s 51.38 m 1 kW.

Daily Programmes: 21.30–23.00. *News:* 22.15.

Announcement: "Aqui Bissau Emissora da Guiné".

Interval-Signal: Variations in D-minor by Arthur Paredes played on guitar. – **Verification** by QSL-card.

GUINEA (Spanish)

EMISORA DE RADIODIFUSION SANTA ISABEL

Address: Santa Isabel, Fernando Poo Island.

Stations: 7200 kc/s 41.67 m 0.75 kW.

Daily Progr.: 06.30–07.30, 12.00–14.00, 18.00–20.00.

Special programmes on 1st, 10th and 20th of each month at 22.00–24.00. **Verification** by letter.

IVORY COAST (French West Africa)

RADIO ABIDJAN

Address: Service de l'Information, Palais du Gouvernement, Abidjan, Cote d'Ivoire, A.O.

Stations: 1495 kc 200.6 m 1 kW – 7215 kc 41.59 m 0.6 kW

Daily Programmes (in French):

06.45–07.30, 12.15–13.00, 18.30–21.00.

Announcement: "Ici Radio Abidjan, station de radio-diffusion de la côte d'Ivoire".

KENYA

CABLE AND WIRELESS BROADCAST. SERVICE.

Address: Cable and Wireless Limited, P. O. Box 777, Nairobi. *Cable:* "Empiregram".

Leading Personalities: Manager: E. G. Garneys. Programme Director: R. Coltart.

HOME SERVICE: Nairobi VQ7LO.

African and Indian Network: D.: 09.00–11.00, 12.45–18.00, 682 kc/s 440.0 m 3 kW – 6060 kc/s 49.50 m 5 kW
African: 09.00–10.00, 12.45–15.30; *Indian:* 10.00–11.00, 15.30–18.00.

English Network:

863 kc/s 347.6 m 5 kW – 4855 kc/s 61.79 m 5 kW
W.: 10.00–11.00, 15.00–20.00. *Sun.:* 07.00–11.00, 15.00–19.00.

Announcement: "This is the Cable and Wireless Broadcasting Station, Nairobi, calling you on wavelengths of 350 and 61.79 metres – (or in Indian – 440 and 49.5 metres). – **Verification:** Reports from Overseas Listeners not required.

FORCES BROADCASTING STATION (Br. War Dept.)

Address: P. O. Box 4040, Nairobi.

Stations: 1420 kc/s 211.2 m 0.25 kW
7265 – 41.29 – 0.4 –

Daily Programmes in English: 03.00–05.00, 09.30–20.00 (Sun. 04.00–20.00). *News* (from BBC): 04.00, 11.00, 18.00.

Announcement: "This is your Forces Broadcasting Service, East Africa Command" (on the hour and half hour).

Interval-Signal: "Marigold" played on piano.

Verification by QSL-card.

LIBERIA (Commercial)

Address: Liberian Broadcasting Compagny, Monrovia.

Leading Personality: Pres.: Dr. John B. West.

HOME SERVICE:

ELBC 900 kc 333.3 m 15 kW – ELB1 6022 kc 49.79 m 1 kW

In English, French and Arabic: 15.45–23.45.

Announcement: "This is the Liberian Broadcasting Company". **Future-Plans:** 15 kW s.w. transmitter 1954.

LIBYA

FORCES BROADCASTING STATION (Br. War Dept.)

Address: No. 1, Forces Broadcasting Station, Tripoli, MELF

Leading Personalities: Station Commander: Hedley Chambers. Programme Officer: Thomas Singleton. Technical Officer: William Henry.

Station: 1484 kc/s 202 m 7.5 kW.

Daily Progr. in English: 1484 05.30–07.15, 11.00–22.00.

Announcement: "This is the Forces Broadcasting Station Tripoli". **Verification** by QSL-card and letter. No return postage required.

RADIO TRIPOLI (Government)

Address: Radio Tripoli, c/o Tripolitania, Liaison Officer, Tripoli.

Station: 1552 kc/s 285 m 0.25 kW: 18.00–20.00 in *Arabic*.

Announcement: "Here is Tripoli" (in Arabic). **Verification** by QSL-card and letter. No postage required.

MADAGASCAR

Address: Radio Tananarive. *Cable:* Radio-Tana.

Leading Personalities: Directeur du Service Général de l'Information: M. Gilbert Saron. Directeur adjoint: M. Roger Frances. Directeur du Poste de Radio-Tananarive.

Stations: FIQA, Tananarive.

French Network

3205 kc/s 93.66 m 1 kW

6172 – 48.60 – 1 – 7375 – 40.68 – 0.25 –

9515 – 31.53 – 0.30 –

Malgache Network

3318 kc/s 90.45 m 0.25 kW

– 40.68 – 0.25 –

– 31.53 – 0.30 –

Madagascar – Mozambique

Daily Programmes in French: W.: 03.30–05.30, 09.00–11.00, 15.00–19.00. Sun.: 04.00–07.45, 08.30–11.00, 14.15–19.30. **News:** 04.00(W.), 05.15(Sun.), 09.00, 16.00, 18.15. **Daily Programmes in Malgache:** D.: 03.30–05.00, 08.30–10.30, 14.00–17.00. **News:** 09.00, 15.00, 16.30.

Announcement in French: "Ici Radio Tananarive" – at opening followed by: "Voici notre émission de la Journée diffusée sur les longueurs d'ondes suivantes".

Interval-Signal: Malgache music.

Verification by QSL-letter. Return postage requested.

MADEIRA ISLANDS

See R. Nacional, Portugal.

MAURITIUS

Address: Mauritius Broadcasting Service, Pasteur Str., Forest Side.

Leading Personalities: Manager: C. de Chazal. Senior Broadc. Engineer: P. G. N. Murray. Chief-Engineer: N. Rambert. Director of Music: M. Moutia. Chief of Indian Progr.: O. S. Geerjanaan. Chief of Talks: P. M. de Troce.

HOME SERVICE: 1364 kc/s 219.5 m 5 kW
15090 – 19.88 – 1.5 –

W.: 03.00–14.15 1364, French, English. News 03.30
15090 (F), 04.00(E).
08.00–09.30 15090 French. News 08.30.
09.30–10.15 15090 Akka, Cantonese. Tues., Thurs.
13.00–14.30 15090 Indian
14.30–17.30 15090 French. News 15.00
Sun.: 03.00–08.30 1364, French. News 03.30, 06.30
15090
08.30–09.45 15090 Akka, Cantonese
13.00–14.30 15090 Indian
14.30–17.30 15090 French. News 15.00.

Announcements: In English: "This is the Mauritius Broadcasting Service". In French: "Ici le M. B. S. poste de Radiodiffusion de l'île Maurice". Before the news are played an excerpt of the Sylvia Ballet and at the beginning of each transmission the "Thin red line".

Verification by QSL-card. Return postage not required.

MOROCCO (French)

RADIO MAROC (Government)

Address: Radio Maroc, Immeuble des P.T.T., Rabat.

Leading Personalities: Dir.: André Fabre. Chief of News Dept.: M. P. Peyre. Chief Eng.: M. Francois Gouré. Administrator: M. Grolleau. Gen. Sec.: M. A. Lestage. Chief of Arabic Dept.: M. F. Gousse.

HOME SERVICE:

Network A=French, English. Netw. B=Arabic, Spanish.
Sebaa-Ayoun 611 kc 491.0 m 120.0 kW Network A
Sebaa-Ayoun 701 – 428.0 – 120.0 – Network B
Rabat 1043 – 287.6 – 1.0 – Network B
from 19.30 onl.

Rabat CNR3 6006 – 49.95 – 2.5 – Network A+B
Tanger 7214 – 41.59 – 50.0 – Network A+B

Network A:

French: W.: 06.45–08.30, 12.00–14.30, 18.00–23.00.
Sun.: 07.15–23.00. **News:** 07.00, 08.15, 13.00, 20.00, 22.55.
English for Americans in Morocco d. exc. Sat. & Sun.: 18.30–19.00: French by Radio & News. *La journal dans le monde:* D. 22.55.

Network B:

Arabic: 07.00–08.30, 12.30–15.00, 17.00–18.45, 19.30–23.00. **News:** 07.00, 08.00, 12.45, 13.30, 17.00, 20.30.
Spanish: 12.00–12.30, 18.45–19.30. **News:** 12.00, 19.15.

SHORT WAVE SERVICE (relay Network A & B):
6006 kc/s: 07.00–08.30 Arabic, 12.00–12.30 Spanish, 12.30–14.30 French, 17.00–18.45 Arabic, 18.45–19.30 Spanish, 19.30–23.00 Arabic.

7214 kc/s: 12.00–12.30 Spanish, 12.30–14.00 French.
Announcement: "Ici Radio Maroc" or "Ici Rabat –

Radiodiffusion Marocaine". In Arabic: "Hunna Radio el Moghrib" or "Hunna Ear Ribat".

Interval-Signal: At opening and closing: "Marseillaise" and "Hymne Chérifien". **Verification by QSL-card.**

MAROCCO SPANISH (Commercial)

Address: Empresa Torres Quevedo SA, Telecomunicaciones, Cardenal Cisneros 15, Tecusa, Tetuan.

Leading Personality: Chief Engineer: M. Picardo.

Stations: R. Dersa 904 kc/s 331.8 m 5 kW:
D.: 12.00–24.00. 12.00–14.00 Spanish, 14.00–16.00 Arabic, 16.00–18.00 Spanish, 18.00–20.00 Arabic, 20.00–24.00 Spanish.

Announcements: Spanish: "Aquí R. Dersa Tetuan".

Arabic: "Huna R. Dersa, Tetuan". **Interval-Signal:**



Verification by QSL-card. **Future-Plans:** New m.w. 20 kW, s.w. 1 kW.

MOZAMBIQUE (Portuguese East Africa)

RADIO CLUBE DE MOZAMBIQUE (Commercial)

Addr.: P. O. Box 594, Lourenço Marques. **Cable:** Radioclub

Leading Personalities: Pres. Capt.: Antonio dos Santos Figueiredo. Vice Pres.: Henrique Rodrigues. Gen. Man.: Capt. Joao Pinheiro. Man. Eng. Progr.: D. Davies. Man. Portuguese Progr.: Teixeira. Chief Eng.: V. Rodrigues.

PORTUGUESE NETWORK: 05.00–06.00 (not CR7BM), 09.30–11.30 (Sat. Sun. 12.00), 15.45–20.15 (not CR7BV & CR7BK).

Call.	kc/s	m	kW	Period of year
CR7BO	737	407	0.3	All the year round
CR7BK	927	323	7.5	All the year round
CR7BM	3420	87.72	7.5	October–April
CR7BV	4829	62.11	7.5	All the year round
CR7BE	9804	30.60	10	October–April
CR7BG	15285	19.63	10	April–October

News: 05.15, 10.30, 17.00 and 20.00.

Announcement: On the hour– 4 notes on gong followed by: "Aquí, Lourenço Marques, Radio Clube de Mozambique, trabalhando em ondas curtas e onda media" (This is the Radio Club of Mocambique–). **Verification by QSL-card.**

ENGLISH NETWORK: 04.00–21.00 (Sat. 22.00).

Call.	kc/s	m	kW	Period of year
CR7BK	927	323	7.5	15.30–21.00 All the year round
CR7AB	3480	86.21	7.5	16.00–21.00 Winter
CR7BU	4920	60.99	7.5	04.00–21.00 All the year round
CR7AA	7254	41.36	7.5	06.30–15.00 All the year round
CR7BJ	9762	30.73	7.5	07.00–15.00 Summer
CR7BF	11765	25.50	7.5	04.00–18.00 All the year round

Announcement: Every quarter or half hour 4 notes on gong followed by "Lourenço Marques for Happy Listening in the – – – metre bands".

Interval-Signal for Home- and Foreign Services: Gong.



Verification by QSL-card.

Nigeria – Senegal

Future-Plans: Branch stations in Nampula (m.w. 0.30 kW, s.w. 1 kW) under the designation of "Posto Regional do Niassa do Radio Clube de Mozambique".
EMISSION DO AERO CLUBE DA BEIRA
Address: Caixa Postal 3, Beira.
Stations: CR71B 7258 kc/s 41.33 m 0.3 kW
HOME SERVICE in *Portuguese*: W.: 09.45–10.45, 16.00–20.30. Sun.: 09.00–12.00, 16.00–20.30.
Verification by QSL-card.

NIGERIA

Address: The Nigerian Broadcasting Service, Broadcasting House, Lagos. **Cable:** Broadcasts.
Leading Personalities: Dir. of Broadcasting: T. W. Chalmers B. Sc. Chief Eng.: J. W. Murray. Ass. Chief Eng.: E. C. Milton. Engineers: C. N. Stansfield (N. Region), L. R. Laurenson (E. Region), R. L. Stones (W. Region). Progr. Dir.: L. A. Perowne (National). Controllers: R. M. Elphick (E. Region), J. F. Wilkinson (N. Region).
HOME SERVICE: *English, Ibo, Yoruba, Hausa*.
National Programme (Lagos):
 4800 kc/s 62.50 m 2.5 kW 09.30–13.00, 16.00–19.30.
 4900 – 61.23 – 0.3 – 05.00–18.30
 6100 – 49.18 – 0.3 – 05.00–18.30
East Regional Programme (Enugu):
 7079 kc/s 42.38 m 0.3 kW 05.00(Sun. 06.00)–22.00.
North Regional Programme (Kaduna):
 18.30–20.00 as for National Programme.
Announcement: "This is the Nigerian Broadcasting Service".
Interval-Signal: Yoruba talking drums beating out: "This is the Nigerian Broadcasting Service".
Verification by letter. Reports are welcomed.
Future-Plans: 2 new transmitters in the National Service at the end of 1953; 2.5 kW transmitter in the East Regional Service January 1954; 7.5 kW transmitter in the North Regional Service April 1954".

REUNION (French Department)

RADIO ST. DENIS (Government)
Address: Radiodiffusion Francaise, Saint Denis.
Leading Personality: Chef du Service: B. Guyot.
HOME SERVICE: *French* W.: 02.30–05.45, 08.00–09.30, 14.00–18.00. Sun.: 04.00–05.00, 06.30–10.30, 14.00–18.00.
 624 kc/s 480 m 1 kW 4820 kc/s 62.24 m 1.5 kW
 3380 – 88.76 – 1.5 – 7170 – 41.84 – 0.2 –
News: 02.30(W.), 04.10(Sun.), 08.30, 16.00–17.15 Relay from Paris.
Announcement: "Ici La Reunion-Radiodiffusion Francaise". – **Verification** by letter.

NORTHERN RHODESIA

CENTRAL AFRICAN BROADCASTING STATION (Government)
Address: P.O.Box 209, Lusaka.
Leading Personalities: Broadc. Officer: A. M. Kittermaster. Asst. Broadc. Officer: C. Sapseid. Broadc. Eng.: J. Reeves. Asst. Broadc. Eng.: J. Davis. Progr. Asst.: P. Fraenkel. African Progr. Organisers: Alick Nkhata and Edward Kateka.
HOME SERVICE (Lusaka ZQP):
 3914 kc/s 76.65 m 2.5 kW 16.15–19.00;
 4826 – 62.16 – 15 – 12.00–19.00;
 7220 – 41.55 – 2.5 – 12.00–16.00.
 12.00–14.00 *General Musical Programme*. 14.00–18.00 W.: *Vernacular* (Mo. Chibemba; Tues. Chishona, Wed. Chinjanja; Thurs. Silozi; Fri. Sindebele; Sat. Chitonga), *Simple English*: Sun.; 18.00–19.00 d. *Advanced English*. *News*: 14.30 (district news), 14.30 and 15.00 (S. Rhodesian news Tues., Fri.), 15.00 (N. Rhodesian news Mo., Thurs., Sat.), 16.25 World-news, 18.00 BBC-news, 18.25.
Announcements: *English*: "This is the Central African Broadcasting Station in Lusaka". *Bemba*: "Kuno niku

Lusaka". *Nyanja*: "Kuno ndi ku Lusaka". *Tonga*. "Kuno nkoku Lusaka". *Lozi*: "Kwanu kwa Lusaka". *Ndebele*: "Lapa e Lusaka". *Shona*: "Tiri pano pa Lusaka".
Interval-Signal: Barotse xylophone and drum.
Verification by QSL-card.

SOUTHERN RHODESIA

Address: Broadcasting House, P.O.Box 8, Causeway, Salisbury. **Cable:** "Broadcasts Salisbury".
Leading Personalities: Studio Controller: J. Parry. Senior Studio Ass.: Miss H. Kelly. Progr. Producer: J. Hooper.
HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Salisbury	584	514	2	Gwelo	1043	288	2
Bulawayo	611	491	2	Salisbury	3320	90.36	7.5
Que Que	746	402	2	Salisbury	6018	49.84	7.5
Gatooma	791	379	2	Salisbury	9490	31.61	0.3
Umtali	980	306	2				

W.: 05.55–06.10, 09.00–12.00, 15.00–20.00. Sun.: 08.00–12.00, 16.00–20.00. *News*: 06.00(BBC), 09.10(W.), 10.00 (Sun.), 11.00(BBC), 18.00(BBC), 18.15(Central and African News). *Radio Newsreel* (W.): 17.15.
Announcement: "This is Rhodesia". **Interval-Signal:** Bells.
Verification by letter.

SAO TOMÉ (Portuguese)

RADIO CLUBE DE SAO TOMÉ (Commercial)
Address: Avenida da Armada, Sao Tomé. **Cable:** "Radio Clube".
Leading Personalities: Pres.: A. Manuel da Fonseca. Vice-Pres.: A. de Almeida Pires.
HOME SERVICE in *Portuguese*:
 CR5SC 4807 kc/s 62.40 m 1 kW 06.00–07.00, 19.30–21.00
 CR5SB 17677 kc/s 16.97 m 1 kW 12.00–13.00 (Sun. Thurs.)
News: 12.30 (Sun., Thurs.), 19.45.
Announcement: CR5SC: "Aqui S. Tomé. Rádio Clube de S. Tomé e Príncipe, trabalhando na banda dos 60 metros". CR5SB: "Aqui S. Tomé. Rádio Clube de S. Tomé e Príncipe, trabalhando na banda dos 16 metros em emissão especialmente dedicada aos ouvintes de Portugal Continental e Províncias Ultramarinas".
Interval-Signal: 3 notes on Gong. **Verification:** QSL-card.

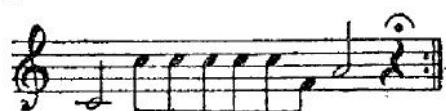
SEYCHELLES

Address: Education Departm., Victoria. **Leading Personality:** Dir.: W. D. Gregg.
Station: ZCQ3, Mahé. 5770 kc/s 51.99 m 0.1 kW
HOME SERVICE *English* and *French*: 14.00–15.00(Sun.), 15.00–16.00(Wed.). *News in English*: 14.30, 15.30.

SENEGAL (French West Africa)

RADIO DAKAR (Government)
Address: 58. Avenue de la République, Dakar. A.O.F.
Leading Personality: Dir. Information-Radiodiffusion: P. Fromentin.
HOME SERVICE:
Dakar Inter Network in *French*:
 1438 kc/s 208 m 1.2 kW – 4950 kc/s 60.60 m 1 kW
 11895 – 25.22 – 12 –
 W.: 06.30–08.00, 12.00–14.00, 18.00–23.10. Sat., Sun.: 07.00–23.20. *News*: 06.30, 07.30, 12.45, 20.00.
"English Magazine": 22.00–22.30 (from 1.1.1954).
Dakar-Afrique Network in *French* and *native languages*:
 1538 kc/s 195 m 1.2 kW – 9710 kc/s 30.90 m 18 kW
 W.: 06.45–08.15, 12.30–13.45, 17.00–22.20. Sun.: 09.30–13.45, 18.30–22.30. *News*: In *French*: 13.00, 22.00. In *Fon*, *Mossi*, *Baoulé*: 07.15–08.00. In *Arabic*, *Bambara*, *Mossi*, *Fon*, *Woloff*, *Sarakolé*, *Peulh*, *Soussou*, *Baoulé*: 17.00–20.45.
Announcement: "Ici Dakar, Radiodiffusion de l'Afrique Occidentale Francaise; Emission Dakar Inter sur les longueurs d'ondes de...".

Interval-Signal:



Verification by QSL-card. International reply coupons should be enclosed.

SOMALILAND (British Protectorate)

RADIO SOMALI (Government)

Address: P.O.Box 14, Hargeisa.

Leading Personalities: Information Officer: C.J. Martin. Broadcaster: A. D. Bem.

HOME SERVICE in Somali:

VQ6MI 7126 kc/s 42.10 m 1 kW.

W.: 13.30–15.00. Sun.: 13.30–15.00, 16.00–17.00. News: 14.15, 16.30 (Sun.).

Announcement: "Haalkun wa Hargesia – Radio Somali".

Interval-Signal: Fragments of orchestral marching music.

Verification by letter.

SOMALILAND (Italian)

RADIO MOGODISHU, Mogodishu

Home service in Italian and Somali:

7420 kc 40.45 m 0.3 kW: Italian: 09.45–10.30, 17.00–18.00.

Somali: 14.15–15.15, 16.00–17.00. Announcement: "Transmette Mogadiscio".

SUDAN

Address: Sudan Broadcasting Service, Public Relations Office, P.O.Box 522, Khartoum.

Station: Radio Omdurman.

572.5 kc/s 524 m 0.25 kW 6437 kc/s 46.60 m 6.5 kW 9900 – 30.32 – 6.5 –

HOME SERVICE in Arabic and English:

Arabic: 04.15–04.45(D.), 08.00–09.00(Sun.), 08.00–09.30 (Fri.), 14.00–15.00(Fri.), 16.30–19.30(D. exc. Fri.), 16.30–17.30(Fri.), 18.00–19.30(Fri.).

English: 16.15–16.30(Sun., Wed.), 17.30–18.00(Fri.).

Announcement: English: "This is the Sudan Broadcast Service calling from Omdurman". Arabic: "Huna Omdurman". Verification by QSL-letter.

TANGANYIKA

RADIO DAR ES SALAAM (Government)

Address: Dept. of Social Development, Dar es Salaam. Cable: Socweel.

Leading Personalities: Commissioner for Soc. Development: C. A. L. Richards. Broadc. Officer: D. Swannie. Education Officer: C. W. W. Ryan.

HOME SERVICE in English and Swahili 16.00–17.30: 3251 kc/s 92.28 m 0.25 kW – 1250 kc/s 240.0 m 0.25 kW 5050 kc/s 59.41 m 0.25 kW.

News: English 16.00, Swahili 17.00.

Announcements: English: "This is Dar es Salaam". Swahili: "Hii nu ya Dar es Salaam".

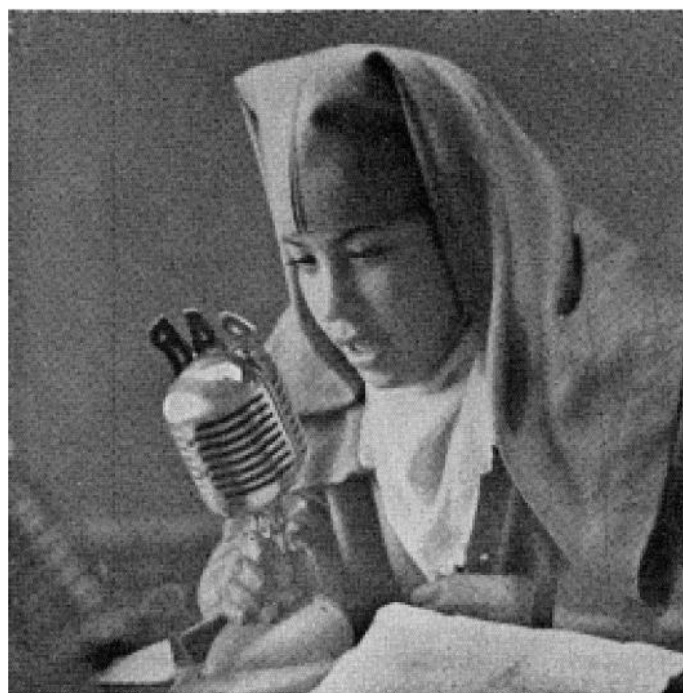
Interval-Signal: Marimba (African musical instrument).

Verification by QSL-card. – Future-Plans: A 20 kW transmitter to be installed mid-1954.

TANGIER

PAN AMERICAN BROADCASTING SYSTEM (Commercial)

Address: Pan American Broadcasting System, Pan American Building, 16, rue Delacroix, Tangier. Box 49, British Post Office, Tangier, Morocco. Cables: Panamericana, Tangier.



Pan American Broadcasting System Tangier: The Arabic announcer the youngest in the World.

Leading Personalities: Pres. and Dir.: J. Surinach Oller. Vice-Pres. and Dir.: C. E. Walbaum.

Stations:

P.A.R.3 575 kc/s 522 m 5 kW Not in use now.

P.A.R.1 1178 – 254 – 5 – All the year*).

P.A.R.2 7290 – 41,15 – 3 – All the year.

P.A.R.2 14500 – 20 – 3 – Under construction.

*) Authorized to be increased to 50 kW.

Daily Programmes:

D. 11.30–16.45, 18.00–01.00 (Thurs., Sun. 02.20).

11.00–12.00 English 19.00–20.00 English

12.00–13.30 French 20.00–21.15 French

13.30–14.00 Italian 21.15–21.30 Italian

14.00–16.00 Spanish 21.30–22.45 Spanish

16.00–16.30 French 22.45–23.30 Symphony music prog.

16.30–16.45 Indian 23.30–24.00 English

18.00–19.00 Arabic 00.00–01.00 Dance music

News: 13.00, BBC news French – 14.00 BBC news Spanish

– 18.00 BBC news Arabic – 19.00 VOA news English –

20.00 BBC news French – 21.30 VOA news Spanish.

Announcements: Spanish: "Aquí Pan American Radio,

Tanger". French: "Ici Pan American Radio, Tanger".

English: "This is Pan American Radio, Tangier".

Interval-Signal: "Bim Bam Bum".

Verification: Listeners' reports are greatly appreciated and are answered by QSL-card. Postage not required.

Future-Plans: Construction of our new 50 kW transmitter, which is duly authorized.

RADIO-AFRICA-MAGHREB (Commercial)

Address: 39, Street Shakespeare, Tangier. Cable: Rafrica.

Leading Personalities: Deputy Administr.: Jean de Bour-

net. Comm. Man.: Beaudry. Techn. Service: P. Lemasson-

Progr. Dept.: J. Joubert. Publicity Dept.: Miss A. Sillero.

Roman.

Home Service:

kc/s m kW

935 321.0 15*) 07.00–09.00, 11.55–22.00.

7193 41.72 5**) 11.55–14.00, 19.30–22.00.

*) to be increased to 50 kW, **) to 25 kW.

Tangier – Zanzibar

In *French, Spanish & English*: 07.00–09.00, 11.55–14.00, 15.00–17.30, 19.30–22.00. In *Arabic*: 14.00–15.00, 17.30–19.30.

Announcements: *French*: "Ici Radio-Africa-Maghreb". *Spanish*: "Agui Radio-Africa-Maghreb". *English*: "This is Radio-Africa-Maghreb".

Interval-Signal: Bell and military march.

Verification by QSL-card.

RADIO-AFRICA-TANGER (Commercial)

Address: 41 Street Fes, Tangier. *Cable*: "Rafrica Tangier".
Leading Personalities: Deputy Administr.: J. D. de Bournet. Gen. Secr.: Mrs. Marthe Julien. Comm. Man: Pierre Benoit. Chief Eng.: B. Settinger. Artistic Service: Miss Juana Tellez. Listeners Service: Miss Lourdes Roman.

Home Service:

683 kc/s 439.2 m 1.25 kW: 12.00–15.30, 19.00–24.00.
7193 – 41.72 – 5 – : 14.00–15.30, 22.00–24.00.
French: 12.00–13.30, 19.00–22.00. *Italian*: 13.30–14.00.
Spanish: 14.00–15.30, 22.00–24.00.

Announcements: *English*: "This is Radio-Africa-Tanger".

French: "Ici Radio-Africa-Tanger". *Spanish*: "Aqui Radio-Africa-Tanger". *Italian*: "Qui Radio-Africa-Tangeri".

Interval-Signal: Gong and "España Cani".

Verification by QSL-card.

VOICE OF AMERICA RELAY BASE

Address: Voice of America, c/o American Legation, Tangier, or Voice of America, New York 19, N.Y., U.S.A.

Stations: Tangier 35/50/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6080	49.34	7270	41.27	11710	25.62	15295	19.61
6140	48.86	9500	31.58	11760	25.51	15340	19.56
6170	48.62	9530	31.48	11830	25.36	15345	19.55
7100	42.25	9545	31.43	11845	25.33	15440	19.43
7160	41.90	9615	31.20	11870	25.27	17770	16.88
7200	41.67	9635	31.14	11940	25.13	21690	13.83
7220	41.55	9650	31.09	15130	19.83		
7235	41.47	9670	31.02	15150	19.80		
7240	41.44	9685	30.98	15200	19.74		
7250	41.38	9700	30.93	15240	19.69		

Daily Programmes: 24 hours daily (see U.S.A.).

Announcement: "This is the American Relay Base in Tangier, relaying the programs of the Voice of America."

Verification by QSL-card.

TUNESIA

RADIO TUNIS (Government – RDF, France)

Addresses: Head Office, 2, rue d'Algier, Tunis. Studios: 3 Place de l'Ecole, Israélite, Tunis.

HOME SERVICE:

Tunis I 629 kc 477 m 20 kW – Tunis II 962 kc 312 m 20/120 kW

Tunis I – French: 06.00–07.15, 11.00–13.00, 17.30–22.00.
News: 07.00–07.15, 11.00–11.20, 12.55–13.00, 19.00–19.20, 21.45–22.00.

Tunis II – Arabic: 05.15–06.30, 11.30–13.30, 18.00–22.00.
News: 06.00–06.15, 12.30–12.45, 18.02–18.10, 19.00–19.25, 21.35–21.50.

Announcement: "Ici Radio Tunis" in French and Arabic.

Interval-Signal: Gong. Tunis I closes with "La Marseillaise" and Tunis II with "Hymne beylical".

Verification by letter. Return postage requested.

UGANDA Protectorate

Address: The Secretariate, P.O.Box 5, Entebbe.
The new Uganda Broadcasting Service will not be in full operation until 1954.

KAMPALA BROADCASTING STATION

Address: Department of Information, P.O.Box 142, Kampala.

Leading Personality: Dir. of Information: H. White, M.B.E.

Station: Kampala.

971 kc/s 308.9 m 1 kW – 5026 kc/s 59.69 m 7.5 kW
3340 – 89.82 – 7.5 – – 7110 – 42.19 – 7.5 –

Daily Programmes: Not yet arranged.

Announcement: "This is Kampala calling".

UNION OF SOUTH AFRICA

SOUTH AFRICAN BROADCASTING CORPORATION

Address: P.O.Box 8606, Johannesburg. *Cable*: Broadcast.

Leading Personalities: Chairman of the Board of Governors: Dr. S. H. Pellissier. Dir. Gen.: G. D. Ross. Deputy Dir. Gen.: N. L. Filmer. Chief Accountant: R. C. Strike. Chief Eng.: H. O. Collett. Director of Afrikaans Progr.: M. M. van Lille. Director of English Progr.: Miss G. N. Dickson. Secretary: J. P. A. van der Walt. Dir. Commercial Service: E. H. Cameron Mc Clure. Dir. News Service: A. M. van Schnoor.

HOME SERVICES:

Stations:	English		Afrikaans		Commercial	
Short Waves:	kc/s	m	kc/s	m	kc/s	m
Johannesburg	3290	91.19	3370	89.02	3356	89.39
	4800	62.50	4895	61.29	4945	60.67
	6095	49.22	6007	49.94	7295	41.12
	7230	41.50	7275	41.24	9600	31.25
	9870	30.40	9523	31.50		
Cape Town			5892	50.92		
			7255	41.36		
			9610	31.22		

	English		Afrikaans		Commercial	
	kc/s	m	kc/s	m	kc/s	m
JohannesburgWest	638	470	719	417	548	547
— East	836	359	728	412	1025	293
Pretoria	953	315	764	393	863	348
Pietersburg	1115	261	863	348	989	303
Bloemfontein	701	428	620	484	899	334
Kimberley	932	322	1475	203		
Grahamstown	593	506	809	371	674	445
Port Elisabeth	962	312	773	338	1178	225
East London	1034	290	1286	233	1457	206
Durban	602	498	683	439	854	351
Cape Town	692	434	557	539	791	379
Pietermaritzburg	566	530	656	457	800	375

The choice of the operating frequencies depends upon the season of the year and on the degree of sunspot activity.
English and Afrikaans Services: W.: 04.45–12.10, 14.00–21.05. Sun.: 05.55–21.05.

News: 05.00(W.), 06.00, 11.15, 16.00, 17.00(W.), 20.30.

Commercial Service-Springbok Radio: W.: 04.00–22.00. Sun.: 05.00–21.05.

Interval-Signal: For Commercial Service (Springbok Radio): GCEGA in key C.

AFRICA SERVICE – International Station. Johannesburg.

9870 kc/s 30.40 m 16.00–20.05

15230 – 19.70 – 08.30–12.15, 14.00–15.45

English: Tues., Thurs., Sat. *Afrikaans*: Sun., Mo., Wed., Fri.

SOUTH-WEST-AFRICA SERVICE (Experimental)

Johannesburg 9680 kc/s 30.99 m: Relay Johannesburg. English Progr. W.: 04.45–21.05 (Sat. 21.45), Sun.: 05.55–21.05. – **Verification** by QSL-card.

ZANZIBAR

Address: Information Office, P.O.Box 334, Zanzibar.

Leading Personality: Information Officer Yahya Alawi.

Home Service in Kiswahili only: W.: 14.00–15.00 on 4795 kc/s 62.5 m 0.25 kW.

Announcement: In *English*: "Zanzibar calling". In *Swahili*: "Sauti ya Unguja". Transmission open with the Anthem of His Highness the Sultan of Zanzibar.

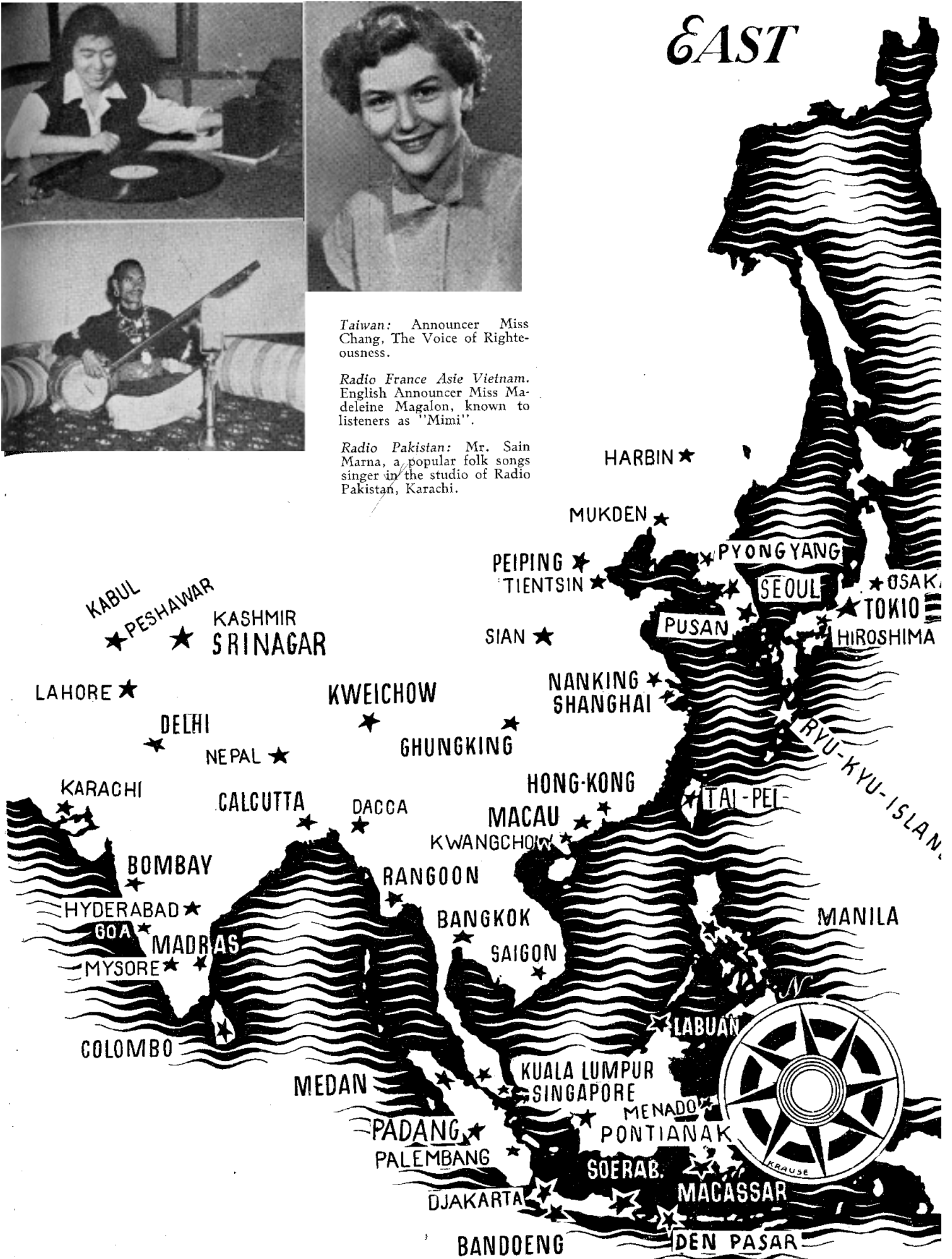


Taiwan: Announcer Miss Chang, The Voice of Righteousness.

Radio France Asie Vietnam. English Announcer Miss Madeleine Magalon, known to listeners as "Mimi".

Radio Pakistan: Mr. Sain Marna, a popular folk songs singer in the studio of Radio Pakistan, Karachi.

EAST



NEAR EAST - EAST

ADEN

There is no fixed schedule of programmes. In the event of an important occasion Cable and Wireless Ltd. may be approached by the Legislative Council and asked to loan one or two of their transmitters for a local m.w. and up country s.w. transmission. The times and frequencies are arranged for each occasion.

AFGHANISTAN

AFGHAN BROADCASTING SYSTEM (Government)

Address: Telecommunications Division, Ministry of Communications, Kabul. **Cable:** Aftel.

Leading Personalities: Dir. Gen.: A. A. Durani. Musical Dir.: Y. Kasimi. Asst. Dir. Persian Progr.: Sultani. Asst. Dir. Pushto Progr.: Jarrar. English Progr.: M. Ansary. **HOME SERVICE** from Kabul Radio in *Pushto, Persian, Urdu*:

660 kc/s 454.5 m 20 kW: 02.30-03.30, 13.30-17.30
News: 02.45, 15.30.

FOREIGN SERVICE from Kabul Radio in *English*: 9975 kc/s 30.08 m 5 kW: 16.50-17.10. **News:** 17.00(d.). **Request progr.:** Sun., Wed.: 17.15.

Announcement: National language *Pushto*: "Da Kabul dai". *English*: "This is Kabul Calling, radiating nightly on 454 metres 660 kc/s and on shortwave on 9475 kc/s 30.08 metres".

Interval-Signal: *Home Service*: A record on national flute. *Foreign Service*: March from Bizets opera "Carmen". **Verification** by letter. Reports are welcome.

Future-Plan: High power s.w. station under construction.

BORNEO (North)

RADIO SABAH

Address: The Director of Posts & Telegraphs, Jesselton. **Station** VS4S 7237 kc/s 41.45 m 0.25 kW: W.: 04.00-05.00

BURMA

BURMA BROADCASTING SERVICE (Government)

Address: 28, Windermere Crescent, Rangoon.

Leading Personalities: Dir.: U. Khin Zaw. Deputy Dir.: U. Pe Thaw. Chief-Eng.: U. Pu Doe.

HOME SERVICE (Rangoon m. w. 5 kW, s. w. 7.5 kW) 955 kc 314 m - 4774 kc 62.83 m. - 6034 kc 49.71 m - 9543 kc 31.44 m.

01.00-02.30 (not Mo.) on 955, 9543 kc/s

News: English, Burmese 01.25

05.30-07.30 (not Mo.) on 955, 9543, 6034 kc/s.

12.00-15.15 on 955, 4774, 9543, 6034 kc/s.

English: 01.15-01.30, 06.15-06.45, 14.15-15.15

News: 01.25, 06.30 15.00. "The Voice of Burma" (talk):

Thurs. 15.00 **Request Progr.:** Wed. Fri. 14.30 Sun. 06.15

Burmese: 01.00-01.15, 01.30-02.15, 05.30-06.15, 06.45-

07.30, 12.00-14.15. **News:** 01.30, 07.15, 13.15 **Request**

Progr.: Wed. Fri. 14.30. Sun. 06.15.

Hindustani: 02.15-02.30 **News:** 02.22

Announcement: (English): "This is the Burma Broadcasting Service".

Interval-Signals: *Burmese progr.* Signature tune: Burmese oboe, gongs and drums. - *English progr.* Signature tune: Eric Coates "Calling all Workers". *Before news:* Mozarts "Minuetto Allegretto in E Flat". - *After news:* "Shepherds Dance" from Beethoven's Pastoral Symphony.

Verification by QSL card. Return postage is required.

CEYLON

RADIO CEYLON (Government)

Address: Radio Ceylon, Colombo 7. **Cable:** "Radceylon".

Leading Personalities: Dir. Gen.: M. J. Perera. Chief-Eng.: N. S. Wickramasinghe. Dir. of National Service: V. Abeysekera. Dir. of Commercial Service: C. Dodd.

NATIONAL SERVICE:

Network I

700 kc/s 428.0 m 15 kW - 6075 kc/s 49.38 m 7.5 kW
4900 - 61.22 - 7.5 -

Sinhalese: 01.00-02.30 on 700, 4900 kc/s, 03.00-06.30 (Schools) on 700, 6075 kc/s, 06.30-07.30 on 700 kc/s, 08.00-09.30 (Schools) on 6075 kc/s, 11.30-16.30 on 700, 4900 kc/s.

News: 01.15-01.30, 13.30-13.45.

Network II

920 kc/s 326.0 m 1 kW - 5025 kc/s 59.70 m 1 kW

English: 01.30-03.00, 07.15-08.15, 12.00-16.30.

News: 02.10-02.15, 13.00-13.15.

Network III

870 kc/s 344.8 m 0.25 kW - 4967 kc/s 60.40 m 7.5 kW

Tamil: 01.00-02.30, 06.30-07.30, 12.30-16.30, 08.00-09.30 (Schools) on 870 kc/s.

News: 01.30-01.45, 14.00-14.15.

COMMERCIAL SERVICE:

Stations:

640 kc/s 469.0 m 0.25 kW 9520 kc/s 31.51 m 35 kW

4870 - 61.60 - 7.5 - 9570 - 31.35 - 35 -

6004 - 49.95 - 7.5 - 11975 - 25.05 - 35 -

7190 - 41.72 - 15120 - 19.84 - 35 -

7.5/100 - 17820 - 16.84 - 7.5/35

To Ceylon: 01.00-10.30 on 640, 6004 kc/s, 10.30-17.30 on 640, 4870 kc/s.

To Ceylon: In *Sinhalese, Tamil, English*:

01.00-10.30 on 640, 6004 kc/s 10.30-17.30 on 640, 4870 kc/s.

To South India: In *English*:

01.30-04.30 on 7190, 15120 kc/s, 12.30-16.30 on 6004, 11975 kc/s. **News:** 12.45-13.00.

To North India: In *Hindi*:

01.30-04.00 on 9520 kc/s, 13.30-16.30 on 7190 kc/s.

To Africa: In *English:* 05.15-06.30 on 17820 kc/s.

To South East Asia: In *English:* 10.15-12.15 on 17820 kc/s. **News:** 10.30-10.45.

To Far East, India (relay VOA): 11.30-17.30 on 9570 kc/s.

Announcement: National Service: *English*: "This is the National Service of Radio Ceylon" or "You are tuned to the National Service of Radio Ceylon". Commercial Service: *English*: "This is the Commercial Service of Radio Ceylon" or "You are tuned to the Commercial Service of Radio Ceylon". **Verification** by QSL-card.

VOICE OF AMERICA RELAY:

Address: Voice of America, c/o American Embassy, Colombo, or Voice of America, New York 19, N.Y., U.S.A.

Stations: *Short Wave:* 35 kW, 11.30-17.30.

7250 kc/s 41.38 m - 9570 kc/s 31.35 m - 11875 kc/s 25.26 m.

Daily Programmes:

11.30 Indonesian 14.00 Urdu (Wed.: Tamil)

12.00 Burmese 15.00 English

12.30 Vietnamese 16.00 Persian

13.15 Bengali (Mo. only) 16.30 Persian

13.30 Hindi (exc. Mo.)

Announcement: "This is Radio Ceylon, relaying programs of the Voice of America". - **Verification** by QSL-card.

THE PEOPLES REPUBLIC OF CHINA

THE CENTRAL BROADCASTING BUREAU

Address: Central People's Broadcasting Station, 3 Hsi Ch'ang an Chieh, Peking.

HOME SERVICES Peking Central: 22.30-01.00, 01.30-04.50, 09.35-18.30 on 640, 700, 6100, 7500, 10260, 11690, 15060 kc/s.

Peking (only) 850, 1080, 1320 Shanghai 900, 1020,

North East 820, 6525 670, 750

East China 800, 5985, 6345, 1290 Nanking 1080, 1260

North-West 880, 6493, 9480 Wuhan 1190

South-West 570, 6154, 11000 Canton 1060, 1370

Tientsin 770, 1110, 920 Chungking 1300

Mukden 1313 Sian 1280

FOREIGN SERVICE from R. Peking:

		kc/s	
Japanese	21.00-22.00	640, 6100, 10260, 11690	
Korean	22.00-22.30	640, 6100, 10260, 11690	
Cantonese	22.30-22.45	700, 11690, 15060	
Ke-Chia Dialect	22.45-23.00	700, 11690, 15060	
Indonesian	23.00-23.30	700, 11690, 15060	
Viet-Nameese	23.30-24.00	700, 11690, 15060	
Thai	24.00-00.30	700, 11690, 15060	
Chaochou	00.30-00.45	700, 11690, 15060	
Burmese	01.00-01.30	700, 11690, 15060	
English	03.00-03.30	11960, 15060	
Korean	08.00-08.30	640, 6100, 10260, 11690	
English	09.00-09.30	640, 700, 6100, 7500, 9040, 10260, 11690, 15060, 15170	
Ke-Chia Dialect	09.30-10.00	700, 11690, 15060	
Amoy Dialect	10.00-10.30	700, 11690, 15060	
Indonesian	10.30-11.00	700, 11690, 15060	
Japanese	11.00-11.30	11690, 15060	
Cantonese	11.30-12.00	700, 11690, 15060	
Viet-Nameese	12.00-12.30	700, 11690, 15060	
Standard Chinese	12.30-13.00	640, 700, 6100, 7500, 9040, 10260, 11690, 15060, 15170	
English	13.30-14.00	700, 11690, 15060	
Thai	14.00-14.30	700, 11690, 15060	
Burmese	14.30-15.00	700, 11690, 15060	
Chinese Dialect	15.00-15.30	700, 11690, 15060	

CYPRUS

THE CYPRUS BROADCASTING SERVICE

Address: Broadcasting House, P.O.Box 824, Nicosia.
Leading Personalities: Dir. of Broadc.: Rex Keating. Chief Eng.: G. S. Thomas. News Editor: E. Maine. Music Organizer: J. Robertson. Greek Progr. Supervisor: G. Mitsides. Turkish Progr. Supervisor: M. Riza.
HOME SERVICE: 692 kc/s 434 m 10 kW.
W.: 15.00-21.00. Sun., Sat. 13.00-21.00. *Greek: Mo., Wedn., Sat. Turkish: Tues., Fri. English: Sun., Thurs.*
News in the three languages at 17.00.
Announcement: "This is the Cyprus Broadcasting Service". - **Interval-Signal:** Goat bells.

THE FORCES BROADCASTING SERVICE, LAKATAMIA

606 kc/s 4950 m. 1 kW.
NEAR EAST ARAB BROADCASTING STATION
Address: P. O. Box 219, Limassol, Cyprus. *Cable:* Neb-sharq", Limassol.
Leading Personalities: Director: Mr. R. Poston. Deputy Director: Mr. G. R. John. Director of Programmes: Mr. Mohamad Ghussein. Chief-Engineer: Mr. W. H. O. Sweeny.

Stations: Sharq al Adna.

	kc/s	m	kW		kc/s	m	kW
	635	472	7.5	ZJM 6	6790	44.18	7.5
ZJM 4	6120	49.02	7.5	ZJM 8	9650	31.09	5
ZJM 5	6170	48.62	0.25	ZJM 7	11720	25.60	7.5

Daily Programmes in Arabic: D. 03.55-06.30, 08.30-19.00. (20.00 for 635 kc/s only). - *News:* 04.00, 05.45, 11.30, 15.30, 18.30. - *Progr. Reviews:* 03.55, 05.40, 08.30, 14.25.
Announcement: "Mahattat a Sharq al Adna. Lil' iza'al Arabiya".
Interval-Signal: Arabic music on stringed instrument.



* **Verification by letter.** Reports from Near East Countries welcomed. No return postage required.

GOA (PORTUGUESE INDIA) (Commercial).

Address: Emissora de Goa, Cidade de Goa, Portuguese India. *Cable:* Emissora, Goa.
Leading Personalities: Pres.: J. Oliveira Chaves. Asst. Dir.: J. E. Lima do Souto. Chief Eng.: V. Carvalho. Chief of Bureau: C. da Piedade Duarte Catulo. Dir. of Arts: M. C. Lobo. Comm. Service: G. Martins.

HOME SERVICE:

GOA	557 kc/s	538.0 m	2.5 kW	07.30-19.30
CR8AB	3425	-	87.70 - 5	- experimental
CR8AB	6025	-	49.79 - 5	- 02.00-17.30
CR8AB	9610	-	31.22 - 10	- 02.00-17.30

Weekdays:

02.00-02.30	Portuguese	15.30-15.45	English (Tues.)
02.30-04.30	Hindi		
1)04.30-11.30	English	7)15.45-16.30	Tues.
2)10.30-11.30	Portuguese		

Sundays:

3)11.30-12.30	Marathi	02.00-02.30	Portuguese
4)11.30-12.30	Urdu	02.30-04.30	Hindi
2)12.00-12.30	English	04.30-08.30	English
12.30-14.00	English	08.30-10.30	Hindi
14.00-15.30	Hindi	10.30-11.45	English
15.30-16.30	English (Mo.)	11.45-12.00	Punjabi
2)15.30-16.30	Gujerati	12.00-16.00	English
5)15.30-16.30	Sindi	16.00-16.30	Marathi/Urdu
6)15.30-16.30	Wed.		

1) Thurs. 04.30-10.30. 2) Thurs. only. 3) Mo., Wed., Fri. 4) Tues., Sat. 5) Fri., Sat. 6) Hindi, Gujarati, Kanarese, Tamil. 7) Malayalam, Telugu, Bengali.

Emigrants Programme (W.): 13.00-14.00 in *English*, 14.00-15.00 in *Konkani*. - *Request Programmes in English:* 07.30-08.30 (Sun.), 07.30-09.00, 12.30-14.00 (Mo., Fri.), 07.15-07.30, 12.30-14.00 (Sat.). - *Religious Programmes in English:* "Voice of Prophecy": Sun.: 07.00-07.30. "Bringing Christ to the Nations": Sun.: 15.30-16.00.

Announcements: *English:* "Radio Goa-Voice of Goa-Voice of Portugal". *Portuguese:* "Emissora de Goa - Voz de Goa - Voz de Portugal". *English Commercial Service:* "This is the Commercial Service of Radio Goa".
Verification by letter. - **Future-Plans:** 10 kW transmitters planned to operate on 15235, 17795, 21685 kc/s.

HONG-KONG

Address: Radio Hong Kong, Electra House, P.O.Box200, Hong Kong. *Cable:* Broadcasts.

Leading Personalities: Controller of Broadcasting: C. L. Hindson. Senior Progr. Asst.: D. E. Brooks. Chinese Progr. Asst.: S. C. Lau. Eng.-in-Charge: A. T. B. Bardens.

HOME SERVICE (ZBW3: Relay ZEK and ZBW).

ZEK	640 kc/s	468 m	2 kW	Chinese
ZBW	845	-	355 - 2	- English 1)
ZBW3	9525	-	31.50 - 2.5	-

1) Apart from "French Half Hour" on Tuesday evenings and "Portuguese Half Hour" on Thursday evenings, all ZBW programmes are broadcast in English.

English: W.: 23.00-01.00, 04.30-06.00, 10.00-15.30. Sat.: 23.00-01.00, 04.30-15.30. Sun.: 02.00-15.30. Holidays: 00.00-15.30. *On ZBW3:* 04.30-05.30, 10.30-11.00, 13.00-15.30. *News:* 00.00, 05.15, 12.00.

Chinese: W.: 00.00-01.00, 03.30-06.00, 10.00-15.30. Sun.: 04.00-15.30. *On ZBW3:* 05.30-06.00, 10.00-10.30, 11.00-13.00. *News:* In English: 11.00, 05.15. In Cantonese, Kuoyu, Swatow: 05.30, 05.40, 05.50, 10.00, 10.15, 12.00, 12.30.

ZBW3: W.: 04.30 06.00, 10.00-15.30. Sat.: 04.30-06.00, 10.00-15.30. Sun.: 02.00-06.00, 10.00-15.30.

Announcements: *English:* "This is Radio Hong Kong". *Cantonese:* "Nishi Heung Gong Kwong Bor Deen Toy".
Verification by QSL-card.

India

INDIA

ALL INDIA RADIO (Government)

Address: Directorate General, All India Radio, Broadcasting House, Parliament Street, New Delhi.

Leading Personalities: Dir. Gen.: M. Lal, ICS. Chief Eng.: A. C. Ramchandi. Deputy Dir. (Gen. S. Gopalan, A. K. Sen. Dir. of Programmes: U. Shanker. Dir. of News Service: M. L. Chowla. Dir. of External Services: Miss M. Masani.

STATIONS:

Delhi: VUD-5/7.5/10/20/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
710	422.5	6145	48.82	9620	31.19	11960	25.08
886	338.6	6150	48.78	9630	31.15	15085	19.89
3250	92.31	6190	48.47	9660	31.06	15130	19.83
3295	91.05	7115	42.16	9670	31.02	15160	19.79
3365	89.15	7120	42.13	9680	30.99	15170	19.78
3435	87.34	7125	42.11	9705	30.91	15190	19.75
3495	85.84	7155	41.93	9710	30.90	15210	19.72
3935	76.24	7170	41.84	9720	30.86	15240	19.69
3950	75.95	7190	41.72	9740	30.80	15290	19.62
3970	75.57	7210	41.61	9750	30.77	15325	19.58
4760	63.03	7225	41.52	9765	30.72	15350	19.54
4860	61.73	7230	41.49	11710	25.62	15380	19.51
4870	61.60	7240	41.44	11760	25.51	17705	16.94
4880	61.48	7250	41.38	11780	25.47	17740	16.91
4940	60.73	7255	41.35	11790	25.45	17760	16.89
4960	60.48	7260	41.32	11810	25.40	17780	16.87
5960	50.34	7275	41.24	11820	25.38	17830	16.83
5970	50.25	7290	41.15	11830	25.36	17840	16.82
5980	50.17	9530	31.48	11850	25.32	17850	16.81
5990	50.08	9550	31.41	11870	25.27	21510	13.94
6010	49.92	9560	31.38	11890	25.23	21660	13.85
6040	49.67	9565	31.36	11915	25.18	21700	13.82
6080	49.34	9575	31.33	11940	25.13		
6110	49.10	9590	31.28	11950	25.10		

Madras: VUM 0.25/10 kW

1110	270.3	4920	60.98	7260	41.32
1420	211.3	6085	49.30	9590	31.28

Mysore:

970	309.3	4800	62.50	6065	49.46
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Bombay: VUB 0.25/10 kW

850	353.0	4840	61.98	7240	41.44
1230	243.7	6150	48.78	9550	31.41

Calcutta: VUC 0.25/10 kW

810	370.4	3305	90.77	7210	41.61
1000	300.0	6010	49.92	9530	31.48

HOME SERVICES:

NORTH REGIONAL SERVICE:

	November /March	March /May	May /Sept.	Septemb. /Novbr.
Delhi A:				
01.30-04.00	337-60	337-60	337-60	337-60
07.00-08.20	337-19-13	337-19-13	337-19-13	337-19-13
07.00-08.00	49	41	41	41
12.00-17.30	337	337	337	337
12.00-13.00	60	48	48	60
14.45-17.30	89	89	60	89
(15.00-15.30 on additional wavelengths)				

Delhi B:

01.30-03.30	422	422	422	422
07.30-09.00	422	422	422	422
08.00-09.00	48	41	41	41
08.00-08.10	19	19	19	19
12.00-17.30	422	422	422	422
13.15-14.15	60	60	48	60
13.15-14.45	89	89	60	89
(15.00-15.30 & 16.30-17.30 on additional wavelengths)				

SOUTH REGIONAL SERVICE:

Madras A:				
01.25-02.45	211-49	211-49	211-49	211-49

07.00-09.15	211-31	211-31	211-31	211-31
10.30-11.30	211-31	211-31	211-31	211-31
12.00-17.00	211-49	211-49	211-49	211-49

Madras B:

01.25-02.45	270-60	270-60	270-60	270-60
07.00-09.15	270-41	270-41	270-41	270-41
10.30-11.30	270-41	270-41	270-41	270-41
12.00-17.00	270-60	270-60	270-60	270-60

Mysore:

01.30-02.45	309-62	309-62	309-62	309-62
08.00-09.00	309-49	309-49	309-49	309-49
12.00-16.30	309-62	309-62	309-62	309-62

WEST REGIONAL SERVICE

Bombay A:

01.30-03.30	244-49	244-49	244-49	244-49
07.15-09.00	244-31	244-31	244-31	244-31
12.00-17.30	244	244	244	244
12.00-14.15	31	31	31	31
14.30-17.30	41	41	41	41

Bombay B:

01.30-03.30	353-61	353-61	353-61	353-61
07.15-09.00	353-41	353-41	353-41	353-41
12.00-17.30	353	353	353	353
12.00-13.50	41	41	41	41
14.00-17.30	61	61	61	61

EAST REGIONAL SERVICE:

Calcutta A:

01.30-03.30	370-61	370-49	370-49	370-61
07.00-09.00	370-41	370-41	370-41	370-41
11.00-17.00	370	370	370	370
11.00-12.45	49	41	41	49
13.00-17.00	90	61	61	90

Calcutta B:

01.30-03.30	300-49	300-41	300-41	300-49
07.00-09.00	300-31	300-31	300-31	300-31
11.00-17.00	300	300	300	300
11.00-13.00	41	31	31	41
13.15-17.00	61	49	49	61

HOME NEWS SERVICES FROM DELHI

M=Madras. My=Mysore. B=Bombay. C=Calcutta.

Assamese:

01.30-01.45	41-31	41-31-25	41-31-25	41-31
07.30-07.40	31-25	25-19	25-19	25-19
13.30-13.45	49-41	41-31	41-31	49-41

Bengali: C(A+B)

02.00-02.15	41-31	41-31-25	41-31-25	41-31
07.20-07.30	31-25	25-19	25-19	25-19
14.00-14.15	49-41	41-31	41-31	49-41

English (relayed by all stations):

02.30-02.45	63-49-41	50-41-31	50-41-31	63-49-41
	-31-25	-25-19	-25-19	-31-25
08.00-08.10	49-31-25	41-31-25	41-31-25	41-31-25
	-19-16	-19-16	19-16-13	-19-16
12.30-12.40	49-31-25	41-31-25	41-31-25	41-31-25
	-19	-19	-19	-19
15.30-15.45	91-75-63	75-63-60	75-63-49	91-75-63
	49-31-25	31-25	41-31-25	41-31-25

Gorkhali:

14.00-14.15	89-63	89-60	89-49	89-63
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Gujerati:

03.15-03.30	49-41-31	49-41-31	49-41-31	49-41-31
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Hindi:

02.45-03.00	60-49-41	60-49-41	60-49-41	60-49-41
	31-25	31-25	31-25	31-25
08.10-08.20	41-31-25	41-31-25	41-31-25	41-31-25
	19-16	19-16-13	19-16-13	19-16
12.35-12.40	49-41-31	49-41-31	49-41-41	49-41-31
	25-19	25-19	25-19	25-19
15.45-16.00	89-75-63	89-75-63	63-60-49	89-75-63
	49-31-25	60-41-31	41-31	41-31-25
		25		

Kannada:

02.15-02.30	41-31-25	41-31-25	41-31-25	41-31-25
			19	

India - Indonesia

	Nov/March	March/May	May/Sep	Sep/Nov
14.15-14.30	49-41-31 25	41-31-25	41-31-25	41-31-25
Kashmiri & Dogri:				
04.00-04.20	60-49-31	60-49-41	49-41	49-41
12.45-13.15	76-49	63-41	49-41	49-41
Malayalam:				
02.00-02.15	41-31-25	41-31-25	31-25-19	31-25
14.00-14.15	31-25	31-25	31-25	31-25
Marathi:				
03.00-03.15	49-41-31	49-41-31	49-41-31	49-41-31
07.20-07.30	31-25	31-25	31-25	31-25
Oriya:				
01.45-02.00	41-31-25	41-31-25	41-31-25	41-31-25
07.40-07.50	31-25	25-19	25-19	25-19
13.45-14.00	49-41	41-31	41-31	49-41
Punjabi:				
03.00-03.15	over Delhi A only.			
14.45-15.00	over Delhi A only.			
Tamil:				
01.45-02.00	41-31-25	41-31-25	31-25	31-25
08.30-08.45	25-19-16	25-19-16	25-19-16	25-19-16
13.45-14.00	31-25	31-25	31-25	31-25
Telugu:				
01.30-01.45	49-31-25	41-31-25	41-31-25	49-31-25
08.20-08.30	25-19-16	25-19-16	25-19-16	25-19-16
13.30-13.45	31-25	31-25	31-25	31-25
Urdu:				
03.30-03.45	60-49-41 31	60-49-41 31	49-41-31 25	49-41
14.30-14.45	91-76-63 41-31	76-63-31 25	63-49-31	91-76-63 41

EXTERNAL SERVICES (from Delhi)

AF= Afghan; AR= Arabic; B= Burmese; C= Cantonese; D= Dogri; E= English; F= French; G= Gujarati; H= Hindi; I= Indonesian; KA= Kashmiri; KU= Kuoyu; P= Persian; PO= Pothoari; PU= Pushto; SW= Swahili; T= Tamil.

GENERAL SERVICE:

E. and S.E. Asia:

	Nov/March	March/May	May/Sep	Sep/Nov	News:
00.30-01.00	31-25	31-25	25-19	31-25	00.30E 00.40T 00.50H

01.30-03.00	25-19	25-19	19-16	25-19	
11.00-13.15	25-19	19-16	19-16	25-16	11.00H 12.00T 13.30E

C. Europe, U.K.

07.30-08.30	19-16	19-16	19-16	19-16	07.35E
08.45-09.45	19-16	19-16	19-16	19-16	
15.00-15.30	31-25	25-19	25-19	31-19	

E. and S. Africa, Mauritius:

04.00-05.10	19-16	19-16	19-16	19-16	04.00G 04.10E 15.48SW 16.20H 16.40G
15.45-17.15	25-19	25-19	25-19	25-19	

EASTERN SERVICE:

Burma:

00.45-00.55	49-41	49-41	41-31	41-31	
11.15-12.00	25-19	19-16	19-16	19-16	11.15B

China:

09.30-10.45	25-19	19-16	19-16	19-16	09.30KU 10.15C
(Sat., Sun. 11.00)					

Indonesia:

22.45-23.00	49-41	49-41	41-31	41-31	
12.00-12.30	25-19	19-16	19-16	19-16	12.00I

WESTERN SERVICE:

Fiji:

07.00-08.20	19-13	19-13	19-13	19-13	
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W. Indies:

23.30-00.30	49-41-31 -25	41-31-25 19	41-31-25 19	49-41-31 25	
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Pakistan:

03.45-04.20	49-41	49-31	49-41	49-41	03.45PO 04.00KA 04.10D 12.45KA 13.00D 13.15PO
12.45-14.15	63-49-41	49-41	63-49-41	63-49-41	

Afghanistan/Persia:

03.15-03.30	49-41	49-41	49-41	49-41	03.15PU 13.50PU
13.45-14.30	76	63	49	75	
16.30-17.30					
(Fri.)	41-31	41-31	41-31	41-31	
16.30-18.00	91-76-63 49	75-63-49 41	63-49-41 31	91-76-63 49	16.45AF 17.45P

Middle East:

04.30-05.30	25-19	25-19	25-19	25-19	04.45AR
16.45-17.15	49-41	49-41	31-25	49-41	
17.30-19.00	76-60-49 41	60-41	41-31-25	76-49-41	17.45AR

W. Europa, N. Africa and M. East:

19.45-20.30	75-60-49 41	49-41-31	41-31-25	75-49-41	19.50F
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Announcement: "This is all India Radio" (in English).
Interval-Signal: All India Radio's signature tune is a melody of eight seconds' duration repeated with intervals of 10 seconds in between. The instruments used are Violin, Viola, Cello and Tampura.



Verification by QSL-card.

INDONESIA

RADIO REPUBLIK INDONESIA (Government)

Addresses: *Head Office:* Djawatan Radio Republik Indonesia, Medan Merdeka Selatan 17, Djakarta. *Cable:* RIVOX. *Djakarta:* 4 and 5 Medan Merdeka Barat, Djakarta. *Bandung:* 2 Djalan Brikittunggal. *Jogjakarta:* 6 Setjodiningratan. *Surakarta:* 1 Djalan Marconi. *Semarang:* 130 Pandanaran. *Surabaya:* 34, 36 Djalan Kajoon. *Djember:* 1 Djalan Irigasi. *Denpasar:* Djalan Kernang. *Palembang:* 7 Talang Djawa. *Padang:* 51 Djalan Sawahan. *Bukittinggi:* 22/34 Djalan Rumah Sakit. *Medan:* 28 Djalan Serdang. *Bandjarmasin* and *Pontianak:* Kalimantan. *Makassar:* 2 Djalan Mariso. *Menado:* E. 9 Djalan Rumah Buruh Sario. -

Leading Personalities: *Head Office:* Dir. Gen.: R. Maladi. Head of Progr. Dept.: R. M. Sumarmadi. Head of Finance Dept.: R. S. Hardjolukito. Head of Techn. Dept.: G. de Wilde. Head of News Dept.: Kamarsjah. *Stations:* Head of Studio: Djakarta: Moh. J. Ronodipuro. Bandung: R. Soeparto. Jogjakarta: R. C. S. Hadisukanto. Surakarta: O. Soemowidjojo. Surabaya: R. Harto. Semarang: S. Sumobroto. Madiun: Mardjuki. Djember: Sumitro. Tjirebon: Suparto. Palembang: M. Arief. Padang: Kartoyo. Bukittinggi: A. Nurin. Medan: L. S. Tonaro. Kotaradja: A. Azis. Pontianak: R. Surjono. Bandjarmasin: Djaswadi. Makassar: R. M. S. Adisepuro. Menado: S. A. Muri. Ambon: W. Ch. Risakotta. Denpasar: B. K. Naftali. Studio Ternate is under supervision of Studio Ambon.

HOME SERVICE:

Call	kc/s	m	kW
<i>Djakarta. (Java Central St.)</i>			
YDB	2460	122.2	0.3 1)
YDD	3277	91.55	1 4)
YDB4	3377	88.89	7.5 2)
YDB2	4910	61.10	0.3 4)
YDF	6045	49.63	100 3)
YDB3	7270	41.27	1 5+2)
YDF6	9710	30.90	50 4)
<i>Call kc/s m kW</i>			
<i>Bukittinggi, Sumatra</i>			
YDM1	3270	91.75	0.3 1)
YDM2	5030	59.64	1 2)
<i>Kotaradja, Sumatra, 10.30-16.30</i>			
YDN	2390	125.5	0.1 1)
YDN2	4985	60.19	1 2)
<i>Medan, N. Sumatra, Regional</i>			
YDP2	3395	88.34	0.25 1)

Indonesia

Call	kc/s	m	kW
YDE 11770	25.49	7.5	5+2)
YDC 15150	19.80	7.5	4)
Bandung, W. Java			
YDA2 2420	124.0	0.25	1)
YDA 3205	93.66	1	2)
YDA3 4945	60.61	0.25	2)
Djember, Java, Relay St.			
YDI6 2330	128.7	0.1	1)
Jogjakarta, Java			
YDJ3 2450	122.4	0.1	1)
YDJ 5060	59.30	7.5	2)
YDJ2 7100	42.25	1	2)
Madiun, Java, Relay St.			
YDG6 3286	91.33	0.1	1)
Semarang, Central Java, Reg.			
YDH 2490	121.35	0.15	1)
YDH2 3945	76.05	1	2)
Surabaya, E. Java, Regional			
YDI3 2467	122.0	0.25	1)
YDI-1 3355	89.45	0.3	2)
YDI2 3980	75.38	5	2)
Surakarta, Java			
YDG2 2440	122.7	0.3	1)
YDG 3305	90.76	1	2)
YDG3 7250	41.38	3	2)
Tjirebon, Relay St., Java			
YDA4 2390	125.5	0.1	1)

Call	kc/s	m	kW
YDP1 4930	60.90	1	2)
YDP3 7240	41.44	7.5	2)
Padang, C. Sumatra, Regional			
YDL2 2480	121.0	0.3	1)
YDL 3960	75.75	0.3	2)
Palembang, S. Sumatra, Reg.			
YDK2 2430	123.0	0.15	1)
YDK1 4855	61.79	1	2)
Bandjarmasin, Borneo, Reg.			
YDO 3250	92.31	0.25	2)
Pontianak, Borneo, 09.30-15.30			
YDW 2350	127.7	0.15	1)
Makassar, Celebes, Reg. I			
YDQ 3365	89.15	0.25	1)
YDQ3 7295	41.12	0.3	2)
YDQ2 9550	31.41	8	2)
Menado, Celebes			
YDS 3214	93.20	1	4)
Denpasar, Bali, 23.30-07.15			
YDU 4840	61.98	0.3	2)
Ambon, Moluccas			
YDR 4865	61.66	1	2)
Ternate, Moluccas, Rel. Ambon			
YDR2 2446	122.6	0.15	1)
1) Local Station			
2) Regional Station			
3) All Indonesian Islands			
4) For foreign listeners in Ind on.			
5) Third Progr.			



Radio Republic Indonesia: Mr. Maladi, Director-General

DJAKARTA:

National Program on 15150, 6045, 3377, 2460 kc/s:
W.: 22.30-00.45, 04.30-07.15, 09.30-15.30. Sun.: 23.30-07.15, 09.30-15.30. **News:** 22.30(W.), 23.30. 00.30(Sun.), 00.45(W.), 01.30(Sun.), 05.00, 06.00, 07.00, 11.30, 12.30, 14.30.

Foreign service:

Abbreviation: A=Australia. N.Z.=New Zealand. SEA=South East Asia. EA=East Asia. LCV=Laos Cambodge Vietnam. IP=India Pakistan. ME=Middle East. E=Europe. J=Japan.

YDF2 11770	25.49	100	I. ME. E. A. N. Z.
YDB2 4910	61.10	0.3	For foreign listeners in Indonesia
YDF6 9710	30.90	50	W.C. U.S.A. E.A. J. SEA.
YDB3 7270	41.26	3	LCV.
YDD 3277	91.55	1	For foreign listeners in Indonesia
YDC 15150	19.80	50	
YDF3 11795	25.43	100	
YDF4 17810	16.84	100	
YDF5 7220	41.55	100	
YDF6 9585	31.30	100	
YDF7 11770	25.49	100	



Radio Republic Indonesia, Djakarta: Miss Nanny Lubis, (sitting) discusses with friends her program on "Our Daily Life".

Daily programmes on 15150, 17770, 4910, 9710, 7270, 3270 (from Apr. to Oct. YDF6 replaced by YDC).

Arabic: 13.00-14.00 YDB2/YDF6, SEA/EA. 16.15-17.00 YDF2/YDC, ME. **News:** 13.10, 16.25.

Chinese: 12.00-13.00 YDB2/YDF6, EA/SEA. **News:** 12.00.

Dutch: 18.00-19.00 YDC/YDF6, E. **News:** 18.03, 18.53.

English: 11.00-12.00 YDB2/YDF6, A/NZ/SEA/IP. 14.30-15.30 YDB2/YDF6 U.S.A. (W. Coast)/IP/SEA. 19.00-20.00 YDC/YDF6, E/ME. **News:** 11.15, 14.45, 19.15.

French: 15.30-16.30 YDB3/YDD, LCV. 17.00-18.00 YDC/YDF6, E/ME. **News:** 15.40, 17.10.

Hindi: 15.30-16.00 YDB2/YDF6, IP/SEA. **News:** 15.30.

Urdu: 14.00-14.30 YDB2/YDF6, IP/SEA. **News:** 14.02.

Announcement: English: "This is the Voice of Indonesia, broadcasting from Djakarta". **French:** "Ici Djakarta, la Voix de l'Indonesie". **Dutch:** "Dit is Radio Republik Indonesia in Djakarta" etc.

Verification by QSL-card or by letter. Report to be addressed to R. Republik Indonesia, P.O.Box 7, Djakarta. Return postage not necessary.

Future-Plans: A new station is planned in Samarinda (Borneo). The following new transmitters are planned to be installed at the beginning of 1954: 3 5 kW, 7 10 kW, 3 20 kW, 2 50 kW.

Third Programme:

YDB3 7270 kc/s 41.26 m 1 kW - YDD 3277 kc/s 91.70 m 1 kW - YDE 11770 kc/s 25.49 m 7.5 kW.

Dutch Programme: D.: 11.30-13.30, 14.30-15.30. **Western. Classical Music:** Sun.: 09.30-11.30. - **Progr. for the Armed Forces:** 22.30-23.45, 13.30-14.30. - **School Broadc. and Language Courses:** 09.30-11.30.

BUKITTINGI, PADANG, MEDAN: W.: 23.30-01.30, 05.30-08.00, 10.30-16.30. Sun.: 00.30-08.00, 10.30-16.30.

BANDJARMASIN: W.: 22.30-23.15, 04.30-06.15, 09.30-15.30. Sun.: 23.30-01.45, 04.30-06.15, 09.30-15.30.

MAKASSAR, MENADO: W.: 22.00-24.00, 04.00-06.45, 09.00-15.00. Sun.: 23.00-06.45, 09.00-15.00.

AMBON: 21.30-23.45, 04.30-06.15, 08.30-14.45.

BANDUNG, JOGJAKARTA, SEMARANG, SURABAJA, SURAKARTA, TJIREBON: W.: 22.30-00.45, 04.30-07.15, 09.30-15.30. Sun.: 23.30-07.15, 09.30-15.30.

DJEMBER: W.: 23.00-00.45, 23.30-07.15. Sun.: 23.45-00.45.

MADIUN: W.: 22.30-00.45, 09.30-15.30. Sun.: 22.30-02.30, 09.30-15.30.

PALEMBANG: W.: 23.00-01.00, 05.00-07.15, 10.00-16.00. Sun.: 00.00-07.15, 10.00-16.00.

Announcement: "Inilah Radio Republik Indonesia di.... (name of station)". - **Interval-Signal:** (for National Programme): Played on Hammond Organ by Sudarmoto.



RADIO ANGKATAN UDARA, Djakarta (Military).

Leading Personality: Dir. Capt.: Y. G. Mamino.

Station: 11940 kc/s 25.13 m 7.5 kW.

Daily Programmes in Indonesian: 09.30-11.30.

English/Indonesian lesson: Mo. 10.45.

INDO-CHINA

VIETNAM

RADIODIFFUSION NATIONALE DU VIETNAM (Government)

Address: Chef du Service de la Radiodiffusion Nationale du Vietnam, 3, rue Richaud, Saigon. *Cable:* "Dirradiale".

Leading Personalities: Director and Chief of Saigon Station: Nguyen-Huu-Hay. Chief of "Station Regionale du Centre V.N. Radio-Hue": Ton-That-Canh. Chief of "Station Regionale P.M.S. Radio Dalat": Editor: Uo-van-Tinh. Ung-Hoi. Chief of "Station Regionale du Nord V.N. Radio-Hanoi": Vu-Khanh.

Stations:

La Voix du Vietnam (Poste National de Saigon)	838 kc/s	358 m	1 kW
	1230 -	246 -	1 -
	4897 -	61.26 -	1 -
	7288 -	41.17 -	12 -
	9620 -	31.19 -	12 -
Radio Hue (Regional)	7205 -	41.63 -	1 -
Radio Dalat (Regional)	1440 -	208.0 -	1 -
	7265 -	41.29 -	1 -
Radio Hanoi (Regional)	9670 -	31.02 -	1 -

LA VOIX DU VIETNAM (South Vietnam):

Chinese: W.: 03.30-04.00 on 1230, 4897, 9620 kc/s
09.00-10.00 (Mo.-Fri.) on 1230, 4897, 7288, 9620 kc/s

09.00-10.00 (Sat., Sun.) on 4897 kc/s
News: 03.30-03.45, 09.45-10.00 -14.45.

English: 14.30-15.00 on all frequencies. **News:** 14.30-14.45.

French: 23.15-23.30 on 1230, 4897, 7288, 9620 kc/s
05.00-05.30 on 1230, 4897, 7288, 9620 kc/s
13.00-13.30 on 838, 7288 kc/s
13.30-14.30 on 838, 1230, 4897, 7288, 9620
News: 23.15-23.25, 05.00-05.15, 13.15-13.20 (7288 kc/s only), 13.30-13.40, 14.10-14.15.

Vietnamese: 22.30-23.15 on 1230, 4897, 7288, 9620 kc/s.
01.30-02.30 on 7288 kc/s.
04.00-05.00 on 1230, 4897, 9620 kc/s.
10.00-10.30 on 7288 kc/s.
10.30-12.30 on 1230, 4897, 9620 kc/s.
12.30-13.00 on 1230, 7288, 9620 kc/s.
13.00-13.30 on 1230, 4897, 9620 kc/s.
News: 23.00-23.15, 04.00-04.10, 04.50-05.00, 10.00-10.30, 11.00-11.15, 13.00-13.15.

English Lessons: on 1230, 7288, 9620 kc/s: 09.00-10.00 (Sun.).

Relay BBC: on 1230, 4897, 9620 kc/s: D.: 13.15-13.30.

Announcements: **English:** "This is the Voice of Vietnam, bringing you our nightly English Language Broadcast..."

French: "Ici "La Voix du Viet-Nam, diffusée du Poste National de Saigon...". **Vietnamese:** "DAY LA DAI PHAT THANH QUOC GIA TIENG NOI NUOC VIET-NAM PHAT THANH Td THU DO SAIGON..."

Interval-Signal:



Verification by QSL-card and by letter.

RADIO HUE (Central-Vietnam)

On 7205 kc/s: **French:** 13.00-14.00. **Vietnamese:** 23.30-23.45, 02.30-03.30, 04.00-04.30, 09.00-12.00. **News in Vietnamese:** 23.30-23.45, 02.30-03.30, 04.20-04.30, 11.37-12.00, 04.00-04.30, 09.00-12.00.

Announcement: **French:** "Ici, Radio-Hue, Station Centre de la Radiodiffusion Nationale du Viet-Nam...".

Vietnamese: "DAY LA DAI PHAT-THANH HUE...".

RADIO DALAT

Home Service in Vietnamese:

23.00-24.00, 04.00-05.00, 10.00-11.30, 12.30-13.00.

News: 23.00-23.15, 04.30-04.45, 10.30-10.45, 12.30-12.45.

Foreign Service in French: 11.30-12.30. **News:** 11.30-11.45

Announcement: **Vietnamese:** "Day la Dai Phat-Thanh Da-Lat". **French:** "Ici Radio Dalat". **Verification by letter.**

Future-Plan: Increase of powers.

RADIO HANOI (North Vietnam)

23.00-01.00, 04.00-05.30, 16.30-13.45.

On 9670 kc/s: **News in English:** 10.30-11.00. **French:** 23.35-23.45, 04.15-04.30, 13.00-13.15. **Vietnamese:** 23.07-23.20, 00.00-01.00, 04.30-04.45, 11.00-11.15, 13.30-13.35. **Chinese:** 04.00-04.10.

Announcements: **French:** "Ici, Radio-Hanoi, Station Nord de la Radiodiffusion Nationale du Viet-Nam...".

Vietnamese: "DAY LA DAI PHAT THANH HANOI...".

RADIO FRANCE-ASIE (Government). The Voice of France in the Far East.

Address: 86, rue Maréchal de Lattre de Tassigny, P.O. Box 412, Saigon. *Cable:* Radiasie.

Leading Personalities: Dir. Gen.: J. Varnoux. Head of English Dept.: H. Dufour. Head of French Dept.: P.-J. Laspeyres. Head of Chinese Dept.: J. M. de Kermadec. Head of Vietnamese Dept.: Hoang-cao-Tang.

Stations: m.w.=1 kW - s.w.=25 kW.

Medium Waves: 1030 kc/s 291 m - 1360 kc/s 220 m

Short Waves:

6116 kc/s 49.06 m - 7230 kc/s 41.49 m - 9750 kc/s 30.77 m
11935 kc/s 25.14 m - 15430 kc/s 19.44 m

HOME SERVICE:

Chinese:

00.00-00.30	Mandarin	7230, 1260 kc/s	News: 00.00-02.00
00.30-01.00	Mandarin	1360 kc/s (Sun.)	
03.15-04.00	Cantonese	7230, 1360 kc/s	03.45-04.00
08.30-10.00	Cantonese and		08.30-08.45
	Mandarin	7230, 1360 kc/s	09.50-10.00
13.00-13.30	Cantonese	1360 kc/s	13.00-13.15
13.05-13.30	Mandarin	11935 kc/s	13.05-13.25

French

23.00-00.35	6116 kc/s	News: 23.15-23.45, 00.15-00.30
00.30-01.30	7230 -	
01.45-02.00	11935 -	01.45-02.00
04.00-05.30	9750 -	04.45-05.00
11.15-15.30	6116 -	11.15-11.35, 12.15-12.45, 15.15-15.30

15.35-16.00 9750 - 15.35-15.50

16.00-16.15 11935 - 16.00-16.15

Vietnamese:

22.45-24.00 7230 (to 23.30)

1360 kc/s 23.10-23.30, 23.55-24.00

04.00-05.15 7230, 1360 kc/s 05.00-05.15

10.00-13.00 7230, 1360 kc/s 11.55-12.00, 12.45-13.00

FOREIGN SERVICE SEA=S.E.Asia. I=India. A.NZ=Australia, New Zealand. E=Europe.

Indo-China-Israel

English:

D.: 23.30-24.00 7230 kc/s SEA
D.: 01.30-01.45 11935 - I
D.: 08.45-10.15 15430 or 9750 kc/s A.NZ
D.: 14.00-16.00 11935 kc/s SEA. I.
D.: 16.00-16.30 9750 kc/s E

News:

23.30-23.45
01.30-01.45
10.00-10.15
14.00-14.15

News: 04.00, 10.00, 16.00. April-Sept.: 02.00-04.00, 08.30-11.30, 14.30-18.30. News: 03.00, 10.00, 16.00.
Verification by letter. Return postage required.

OTHER REGIONAL STATIONS

Kurdistan	6640 kc/s	45.20 m	11.30-13.30	Persian
			15.30-17.30	Kurdish
Isfahan	6845	- 43.77	- 13.00-14.00	Persian
Ahwaz	7960	- 37.70	- 12.30-14.30	Persian
Meshed	8015	- 37.42	- 13.30-16.30	Persian

IRAQ

Address: Baghdad Radio Station, Baghdad.

Stations:

767 kc/s	391.1 m	0.5 kW	7092 kc/s	42.30 m	16 kW
6135	- 48.90	- 0.5	11724	- 25.58	- 16
7062	- 42.48	- 0.5			

Daily Programmes:

Arabic: 03.55-06.00, 09.00-11.00, 12.55-19.15 on 767, 7092, 11724 kc/s (from 17.15 also on 6135 kc/s).

Kurdish: 13.30-17.00 on 6135, 7062 kc/s.

English: 19.15-20.00 on 767, 6135, 7092, 11724 kc/s.

Announcements: "This is Radio Baghdad" - "Ici Radio Baghdad" - "Huna Baghdad".

Interval-Signal: Soft chirps of a mechanical nightingale.
Verification by QSL-card.

ISRAEL

ISRAEL BROADCASTING SERVICE (Government)

KOL ISRAEL-HOME SERVICE:

Address: Programs: "Kol Israel", P. O. Box 1082, Jerusalem. Engineering: Ministry of Posts (Telegraphs, Telephones, Radio) Jerusalem. Cable: Gentel.

Leading Personalities: Head of Information Services: M. Perlman. Dir. Gen. of P.T.T. and Radio: H. Ben Menahem, Chief-Eng. M. E. Berman.

Network I:	Call.	kc/s	m	kW
Tel Aviv	4 × B36	575	521.7	50
Jerusalem	4 × B34	737	407.0	2.5
Haifa	4 × B35	1205	248.4	0.5

Hebrew: 04.30 (Sat. 05.30)-06.00, 06.30-10.00 (Sat.), 10.00-12.15, 14.00-16.30, 17.00-21.05. News: 05.00-05.15, 11.30-11.45, 16.15-16.30, 18.30-18.45, 21.00-21.05.

Arabic: 06.00-06.30, 12.15-13.00, 16.30-17.00. News: 06.15-06.30, 12.15-12.30, 16.30-16.45.

Turkish: 09.30-10.00 (Sun. only). News: 09.30-09.45.

Network II:	Call.	kc/s	m	kW
Tel Aviv	4 × B47	652.1	460.0	1
Haifa	4 × B42	1336.5	224.6	1
Jerusalem	4 × B43	1390	215.8	1

English: 11.45-12.00, 20.15-20.30 (news).

French: 12.00-12.15 (news), 16.30-17.00 (652.1 kc/s only).

Hebrew: 14.00-16.15 (Fri. 13.30-14.45).

On 652.1 kc/s only: Ladino: 17.00, Yiddish: 17.30, Roumanian: (Sun., Wed., Fri., Sat.) 18.00, Turkish: (Tues., Thurs.) 18.00, Hungarian: (Sun., Wed., Fri., Sat.) 18.15, Persian: (Tues., Thurs.) 18.15.

Network III: kc/s m kW

Tel Aviv 4 × B21 6830 43.82 2.5 Relay Network I, II.
Relay Network I: Arabic: 06.00, Turkish: 09.30 (Sun. only), Arabic: 12.15, 16.30, Relay Network II: Hebrew: 14.00-16.15 (Fri. 13.30-14.45), Ladino: 17.00, Yiddish: 17.30, Roumanian/Turkish: 18.00, Hungarian/Persian: 18.15-18.30, English: 20.15-20.30.

Network IV (Galey Zahal - Forces Broadcasting Service).

Tel Aviv	4 × B41	1304	230.0 m	1 kW
Haifa	4 × B42	1336.5	- 224.6	- 1
Jerusalem	4 × B43	1390	- 215.8	- 1
Tel Aviv	4 × B51	2442	- 122.85	- 0.5
Tel Aviv	4 × B44	6725	- 44.61	- 1

Hebrew: 16.30-20.00. News: 18.30-18.45.

With the introduction of summertime all programmes are likely to be 30 to 60 minutes earlier on all Networks. The changes will be announced in the News Bulletin during the last week before the change will take place.

Moderato



Fa-sol-do-la-fa-do-re-sol-la-re-fa.

Verification by QSL-card.

RADIO HIRONDELLE (The Voice of the French Army)

Address: 63, Boulevard Doudard de Lagrée, Hanoi.

7408 kc/s 40.50 m 1 kW, 4403 kc/s 68.07 m 1 kW.

Daily Programmes in French: W.: 23.30-02.00, 05.00-07.30, 11.00-17.00. Sun.: 23.30-03.00, 05.00-11.30, 12.00-17.00.

Announcement: "Ici Radio Hironnelle, La Voix des Forces l'Union Française en Indochine du Nord".

Verification by QSL-card and letter. Return postage not required.

CAMBODIA

Radio Cambodia, Phnom-Penh.

6090 kc/s 49.26 m 1 kW (to be increased to 10 kW):
In Cambodian (Khmer): 23.00-24.00, (news in French 23.15-23.30), 04.00-06.00 (new in French 04.45-05.00, 10.00-13.15).

LAOS

Radio Lao, Vientiane.

7215 kc/s 41.59 m 1 kW.

Daily Programmes: 01.00-02.00, 12.00-14.30. English: 01.05-01.15, Vietnamese: 01.15-01.30. Local news: 12.40-13.00, World news: 13.00-13.20, French: 14.00-14.15, Thai: 14.15-14.30.

Announcement: »This is R. Lao calling from Vientiane, Laos«. Verification by letter.

IRAN

RADIO TEHERAN (Government)

Address: The Department of Press and Propaganda, Teheran. Cable: "Tehran Propaganda".

Stations:	kc/s	m	kW	kc/s	m	kW	
EQA	895	335.0	20	EPF	8110	36.96	7
EEO	3850	77.92	20	EQC*)	9680	30.99	20
EPP	3930	76.34	2	EPB	15100	19.87	7/20
EQD	4790	62.63	2	EPJ	18590	16.02	7
EQB	6155	48.74	2	*) varies.			

HOME SERVICE in Persian:

02.45-05.00 EQA, EQO, EQB; News: 03.30.

08.30-12.00 EQA, EQB, EQC; Fri. from 05.30 Arabic, Turkish; News: 10.30.

13.30-18.30 EQA, EQO, EQB; 13.30-14.00 Urdu, 14.00-14.30; News: 15.30, 17.30.

FOREIGN SERVICE:

18.30-20.30 on EQA, EQB, EQC (Summer EPB).

18.30 Arabic, 19.30 German, 19.45 French, 20.00 English, 20.15 Russian.

Announcement: English: "This is Teheran". French: "Ici Teheran". German: "Hier spricht Teheran".

Verification by letter.

RADIO TABRIZ (Regional)

Leading Personality: Dir.: N. Najmi.

Home Service in Persian: 1500 kc/s 200.0 m 0.7 kW - 6090 kc/s 49.26 m 7.5 kW.

Oct.-March: 03.00-05.00, 09.00-11.30, 13.30-18.30.

"Kol Israel", this is the Voice of Israel Broadcasting". *Yiddish*: "Kol Israel Laoleh". *French*: "Ici 'Kol Israel' La Voix d'Israel". *Hungarian*: "'Kol Israel' - It OZ Israeli Radio". *Rumanian*: "Aci e Postul de Radio 'Kol Israel'". *Ladino*: "Aqui, 'Kol Israel', La Boz de Israel". *Turkish*: "Burasi Israelin sesi radyo istasyonu". *Persian*: "In sedai Israil". "Galey Zahal". *Network IV*: "Galey Zahal" (Forces Broadc. Service).

Interval-Signal: *Network I-III*: Bible cantillation



Verification by QSL-card or letter.

Network IV:



FOREIGN SERVICE: - WORLD ZIONIST ORGANISATION

Address: "Kol Zion Lagolah" (The Voice of Zion), P.O.B. 754, Jerusalem.

Leading Personalities: Chairman of the Board of Directors: Z. Shazar. Coordinator, Board of Directors: I. Klinov. Acting Dir.: E. Argov. *Kol Zion Lagolah*: Dir. English Section: G. Wigoder. Acting Dir. French Section: D. Catarivas and M. Catane. Dir. Yiddish Section: M. Gross-Zimmerman. Dir. Hebrew Section: E. Shmueli. Musical Dir.: M. Lavry.

Station:

Tel Aviv 4 x B31 9009 kc/s 33.30 m 7.5 kW.

Daily Progr. for W. and C. Europe and N. Africa:

Yiddish: 19.15-20.00, *news* 19.15-19.30 (Sun.-Thurs. only). *Hebrew*: 20.00-20.15. *French*: 20.30-21.15, *news* 20.30-20.45 (Sun.-Thurs. only). *English*: 21.15-22.00 (Sat. 22.30), *news* 21.15-21.30 (Sun.-Thurs. only).

Relay Home Service, Network I: Hebrew 18.30-19.00 (Sun. 18.30-18.45).

Relay Home Service, Network II: Ladino 17.00-17.30, Rumanian (Sun., Wedn., Fri., Sat.), Turkish (Tues., Thurs.) 18.00-18.15. Hungarian (Sun., Wed., Fri., Sat.), Persian (Tues., Thurs.) 18.15-18.30. English 20.15-20.30. *During Israel summer time all programmes will be broadcast one hour earlier.*

Announcements: *Hebrew*: "Kol Zion Lagolah". *English*: "The World Zionist Organisation presents from Jerusalem 'Kol Zion Lagolah', the Voice of Zion, Shalom Aleichem". *French*: "Ici Jerusalem. Kol Sion Lagola 'La Voix de Sion'. L'Organisation Sioniste Mondiale présente son émission quotidienne destinée à la diaspora. Chalom alékhem". *Yiddish*: "Kol Israel. Du ist Kol Zion Lagolah fun Yerushalayim. Shalom".

Interval-Signal: First phrase from the second half of the National Anthem "Hatikvah".



Verification by QSL-card and letter.

Future-Plans: A new 50 kW s. w. transmitter for use in the Home- and Foreign Service is expected to be ready early 1954. Frequencies and schedules of the Foreign Service are then liable to be altered.

JAPAN

Japanese broadcasting is consist of 1) Nippon Hoso Kyokai (NHK-Broadcasting Corporation of Japan) which is a public corporation, and 2) Private Corporations.

Addresses: 1) NHK: 2 2-chome, Uchisaiwaicho, Chiyodaku, Tokyo. *Cable*: RADIONHK. 2) NAB: Nippon Minkan Hoso Remmei (National Association of Broadcasters-NAB), Asahi Insurance Building, Yuraku-cho, Chiyodaku, Tokyo.

Leading Personalities: *Board of Governors*: Chairman: I. Yano. *N.H.K.*: President: T. Furukaki. Vice-President: S. Komatsu. Directors: S. Okabe, Y. Kanagawa, M. Kato. Chief, General Affairs: Y. Ikeda. Chief, Finance: S. Tochizawa. Chief, Radio Department: Y. Kasuga. Chief, News Department: Y. Maeda. Chief, Television Department: Y. Yoshikawa. Chief, International Broadc. Dep.: S. Sakiyama. Chief, Radio and Television Culture Research Inst.: S. Nakamura. Chief, Technical Department: K. Mizokami. Chief, Facilities Department: T. Yokoyama. Chief, Technical Research Laboratory: Y. Tanabe. Chief, Public Relations Department: K. Sugimoto. *NAB*: President: T. Adachi. Directors: K. Sasabe, B. Iijima, M. Sugi, M. Yamonaki, K. Shiraishi, T. Kanno.

NIPPON HOSO KYOKAI

HOME SERVICE:

Network I 20.30-14.30 in Japanese.

	kc/skW	Call		kc/skW	Call
*Tokyo	590 50	JOAK	*Kumamoto	930 10	JOGK
Nagano	780 0.5	JONK	Fukuoka	610 10	JOLK
Niigata	850 10	JOQK	Kokura	620 0.5	JOSK
Kofu	620 0.5	JOKG	Nagasaki	660 0.5	JOAG
Matsumoto	840 0.5	JOSG	Kagoshima	980 10	JOHG
*Osaka	670 50	JOBK	Miyazaki	840 0.5	JOMG
Kyoto	900 0.5	JOOK	Oita	820 0.5	JOIP
*Nagoya	730 10	JOCK	Saga	780 0.5	JOSP
Kanazawa	1170 10	JOJK	*Sendai	890 10	JOHK
Shizuoka	880 0.5	JOPK	Akita	820 0.5	JOUK
Fukui	1000 0.5	JOFG	Yamagata	700 0.5	JOJG
Hamamatsu	620 0.5	JODG	Morioka	650 10	JOQG
Toyama	1000 0.5	JOIG	Tsuruoka	1200 0.5	JOJP
Takayama	1040 0.5	JOCQ	Hachinohe	900 0.5	JOTQ
Tsuruga	1040 0.5	JOFT	*Sapporo	570 10	JOIK
*Hiroshima	790 10	JOFK	Hakodate	1020 0.5	JOVK
Okayama	960 0.5	JOKK	Asahigawa	680 0.5	JOCG
Matsue	1110 10	JOTK	Obihiro	1040 0.5	JOOG
Tottori	900 0.5	JOLG	Kitami	990 10	JOKP
Onomichi	1200 0.5	JODP	Muroran	960 0.5	JOIU
Hofu	680 0.5	JOUG	*Matsuyama	700 0.5	JOZK
Hagi	1020 0.5	JOUQ	Kochi	1150 0.5	JORK
			Tokushima	920 0.5	JOXK

News: 21.00-21.15, 22.00-22.15, 23.00-23.05, 00.00-00.15, 01.00-01.05(W.), 02.00-02.15(W.), 03.00-03.15, 04.00-04.05, 06.00-06.05, 08.00-08.15, 10.00-10.15, 12.00-12.15, 13.00-13.15, 14.00-14.10.

+ 41 low power stations (remote).

* Central broadcasting station.

Network II: 21.00-02.30 in Japanese.

	kc/skW	Call		kc/skW	Call
*Tokyo	690 50	JOAB	Tottori	1500 0.5	JOLC
Niigata	1030 10	JOQB	Okayama	1520 0.5	JOKB
Kofu	1040 0.5	JOKC	*Kumamoto	1350 10	JOGB
Nagano	1080 0.5	JONB	Oita	1040 0.5	JOID
Matsumoto	1440 0.5	JOSC	Miyazaki	1080 0.5	JOMC
*Osaka	830 50	JOBB	Fukuoka	870 10	JOLB
Kyoto	1500 0.5	JOOB	Kokura	1380 0.5	JOSB
*Nagoya	910 10	JOCB	Kagoshima	1410 10	JOHC
Takayama	540 0.5	JOCZ	Nagasaki	1440 0.5	JOAC
Hamamatsu	1040 0.5	JODC	Saga	1480 0.5	JOSD
Shizuoka	1080 0.5	JOPB	*Sendai	1090 10	JOHB
Kanazawa	1370 10	JOJB	Aomori	800 0.1	JOTC
Fukui	1510 0.5	JOFC	Morioka	770 10	JOQB
Toyama	1510 0.5	JOIC	Hachinohe	1300 0.5	JOTZ
*Hiroshima	1050 10	JOFB	Yamagata	1380 0.5	JOJC
Hofu	1300 0.5	JOUC	Akita	1470 0.5	JOUB
Matsue	1330 10	JOTB	Kooriyama	1480 0.3	JOCD
Onomichi	1380 0.5	JODD	Tsuruoka	1530 0.5	JOJD
Hagi	1480 0.5	JOUZ	*Sapporo	750 10	JOIB

Japan - Korea

kc/s kW Call
Obihiro 540 0.5 JOOC **kc/s kW Call*
Asahigawa 1080 0.5 JOCC *Matsuyama 1470 0.5 JOZB
Kitami 1290 10 JOKD Kochi 1430 0.5 JORB
Hakodate 1440 0.5 JOVB +18 low power stations
Muroran 1520 0.5 JOIT (remote). * Central Broad-
casting Station.

English Lesson, French Lesson: 21.00-21.30 Mo.-Fri.
German Lesson, English Conversation: 21.30-22.00 Mo.-Fri.

Announcement: Call sign announced at the beginning of each broadcast.

Domestic Relays:

2030-1000, JKH-7257.5: 2000-2215, JKI4910: 2000-1000, JKI 7285; 2225-1000, JKI-2, 9665; 0300-0400, JBD-3, 15225; 1000-1300, JKI-4, 11800; 1200-1600, JBD-2, 9560; 1200-1600, JBD, 9505.

OVERSEAS SERVICE, 50 kW:

<i>kc/s m</i>	<i>kc/s m</i>	<i>kc/s m</i>
JOB 6069 49.43 JOA3 9695 30.94	JOB4 11780 25.47	
JOB2 7180 41.78 JOA4 11705 25.63	JOA6 15135 19.83	
JOB3 9675 31.01 JOB6 11725 25.58	JOB5 15235 19.69	

Hours Service 1) 2) 3) *Language*
05.00-06.00 N. Amer. W.C. 30 30 19 Japanese

07.00-08.00 Hawaii 41 25 25 English
30 19 19 Japanese

09.00-10.00 Australia 25 25 25 English
30 19 19 Japanese

11.00-12.00 N. China 25 25 25 English
30 30 25 Chinese, Japanese

12.00-13.00 C. China 41 41 30 English
30 30 25 Chinese, Japanese

13.30-14.30 Philippines 30 30 25 Indones., Japanese
Indonesia 25 25 19 English

14.45-15.45 French I 30 30 25 Japanese
China, Thai, Burma 41 25 19 English

16.00-17.00 India, Paki- 30 30 25 Japanese
stan 25 25 19 English

19.00-20.00 Europe 41 25 25 Japanese
49 30 30 English

22.00-23.00 S. America 30 19 19 Japanese, Spanish
25 25 25 Portuguese

News ten min. of each language. 1) Nov./Feb. 2) March/July
Sept./Oct. 3) Aug.

Announcement: In English: "This is Tokyo, broadcasting to (target area)".

Verification by QSL-card or letter. No return postages are required.

PRIVATE STATIONS:

JOKR 950 316 50 R. Tokyo, Inc. Tokyo
JONR 1010 297 10 Asahi Broadcasting Co., Osaka
JOAR 1070 280 10 Chubumihum Broadcasting Co., Nagoya.

JOQR 1130 266 10 Nihum Culture Broadcasting Association, Tokyo

JOFR 1190 252 10 R.-Kyushu Broadcasting Co. Fukuoka

THE RADIO CONSTRUCTOR

is the monthly magazine for the practical radio enthusiast. With an emphasis on construction, all types of radio, receivers, televisions, amplifiers, recording, equipment, test gear, radio control of models, workshop practice etc., are covered in this journal. The home constructor of all types of electronic gear will find this periodical invaluable. 1 s. 6 d. monthly. Annual subscription 18/- sterling. USA \$ 2.75.

Sample copies sent on request.

AMALGAMATED SHORT WAVE PRESS LTD.

57, Maida Vale, London, W. 9.

JOOR 1210 248 10 New Japan Broadcasting Co., Osaka

JOHR 1230 244 10 Hokkaido Broadcasting Co., Sapporo

JOIR 1250 240 10 Tohoku Broadcasting Co., Sendai +17 private stations. 21 new private or commercial stations will be completed in March 1954.

FAR EAST NETWORK COMPANY - AFRS (Military)

Address: 8213 Army Unit, APO 500, PM San Francisco.
Medium Waves: 21.00-15.00 English.

<i>kc/s m kW</i>	<i>kc/s m kW</i>
Tokyo 770 389.6 50	Sendai 1430 209.8 10
Nagoya 1270 236 10	Konkura 1450 207.0 10
Osaka 1390 215.8 10	

Short Waves: *kc/s m kW*

Namata JKL 4860 61.73 5 10.00-15.00

Yazaki JKI-3 6080 49.34 5 10.00-15.00

Yamata JKL-2 9605 31.24 5 21.00-09.45

Nazaki JKI-6 11825 25.37 5 21.00-09.45

News in English: 21.30, 22.00, 22.55, 01.00, 03.30, 06.00, 09.00, 10.55, 12.00, 13.00, 14.00, 14.55.

Announcement: "FEN, The Far East Network".

Interval-Signal: Each hour a 1000 cycle tone is given signifying correct time. **Verification** QSL-card.

BRITISH COMMONWEALTH FORCE (BCF)

RADIO STATION (Military)

Address: Britcom Base Broadc. Station, BAPO5, Kure.

Stations: 1470 kc. 204 m 0.3 kW - 6105 kc. 49.14 m 1 kW.

Daily Programmes in English: 21.30-14.00.

News: 21.45, 22.45, 04.00, 09.00, 13.00.

Verification by QSL-card.

KASHMIR

RADIO KASHMIR

Srinagar: 1490 kc/s 201.3 m 4860 kc/s 61.73 m
3277 - 91.55 - 6110 - 49.10 -

Daily Programmes: 02.15-04.15 (Sun. 04.45) on 1490, 4860 kc/s. 07.00-08.30 on 1490, 6110 kc/s. 12.15-17.15 on 1490, 3277 kc/s.

News in English: 02.30, 15.30. News in Urdu: 03.30, 07.00, 14.00, 15.45. News in Kashmiri: 04.00, 13.30.

Jammu: 990 kc/s 303.0 m: 02.30-04.30 (Sun. 05.30), 12.30-16.30. News in English: 02.30, 15.30. News in Urdu: 03.30, 14.00. News in Dogri: 04.10, 13.00. News in Hindi: 14.45.

RADIO MURREE, Murree: 3440 kc/s 87.21 m 02.30-04.00, 11.30-17.30. 6250 kc/s 48.00 m 07.30-09.00.

REPUBLIC OF KOREA (South Korea).

KOREAN BROADCASTING SYSTEM (Government).

Address: Radio Bureau, Office of Public Information, Seoul.

Leading Personality: Chief Eng.: Hahn Ki Syun.

Stations:

<i>Medium Waves:</i>	<i>kc/s kW</i>	<i>kc/s kW</i>
Seoul HLKA 560 1	Pusan HLKB 800 5	
Iri HLKF 570 0.5	Taejon HLKI 880 10	
Chungju HLKQ 600 0.5	Seoul HKKA 970 10	
Masan HLKO 600 0.05	Namwon HLKL 1030 0.5	
Mokpo HLKN 650 0.5	Chejn HLKS 1080 0.5	
Taegu HLKG 710 10	Kangneung HLKR 1080 0.5	
Kwangju HLKH 780 0.5	Chuncheon HLKM 1230 0.3	

Short Waves: *kc/s m kW*
Seoul HLKA 2510 120.5 10, - 3892 76.80 1
Taegu 4777 62.79

Pusan HLKB 7935 37.81 1

HOME SERVICE in Korean:

Seoul and Pusan: 21.00-23.30, 02.00-05.00, 08.00-15.30.

FOREIGN SERVICE in English:

Seoul and Pusan: 09.15 Mo., Wed., Thurs., Fri. "The Voice of Free Korea".

Announcement: English: "HLKA-Seoul, Korea".

KUWAIT (Persian Gulf)**RADIO KUWAIT**

Address: Security Department, Kuwait.

Leading Personality: Chief of Public Security: Dir. Shaikh Abdulla Mobarak.

HOME SERVICE in *Arabic*:

5000 kc/s 60.00 m 1 kW.

17.00–20.00 (Summer 18.00–21.00), 05.00–07.00 (Fri.).

Announcement: "Huna Kuwait, Mahattat Kuwaitia".

Verification by letter.

LEBANON**LIBANESE BROADCASTING STATION (Government)**

Address: Station de Radiodiffusion de la Republique Libanaise, ministère de l'Information, Beyrouth.

Cable: "Radioliban".

Leading Personalities: Dir. Gen. de Ministère de l'Information: A. El-Assad. Ass. Dir.: N. Lian. Chief of Broadcasting: F. Kassem. Chief Eng.: J. Rouhayem.

HOME SERVICE in *French, Arabic and English*:

836 kc/s 359 m 4 kW – 8036 kc/s 37.34 m 2 kW

W.: 04.30–07.15, 10.00 (Fri. 09.15)–13.00, 15.00–21.30.

Sun.: 06.00–08.00, 09.45–13.00, 14.30–21.30.

Arabic (News): 05.00–05.15 (Sun. 06.00–06.15), 11.00–11.15, 18.00–18.20, 21.20–21.30. *French* (News): 05.30–05.45, 11.30–11.45, 19.00–19.15. *English*: 15.00–16.00.*Request Progr. in French*: Sun. and Thurs.: 10.00–11.30.Announcements: *Arabic*: "Houna Beyrouth, Mahattat al'Iza'a al Loubnaniat". *French*: "Ici Beyrouth, Station deRadiodiffusion de la République Libanaise". *English*:

"This is the English programme of the Lebanese Broad-

casting Station in Beirut".

Interval-Signal: For medium- and short wave:



Verification by QSL-card or letter.

MACAU (Portuguese China).**RADIO CLUBE DE MACAU – RADIO VILA VERDE (Commercial).**

Addresses: Radio Clube de Macau, Macau. – Radio Vila Verde, Rua Francisco Xavier Pereira, Macau. Cable: Vila.

Leading Personalities of R. Vila Verde: Dir. and Owner: Dr. P. J. Lobo. Station Man.: P. H. Lobo. Station Eng.: J. J. Alvares.

Stations: kc/s m kW

CR9AA 900 333 0.25 R. Clube de Macau.

CR9XL 1037 289 1 R. Vila Verde.

Daily Programmes (May–Decbr. one hour earlier):

CR9AA: *Portuguese*: 05.30–06.30, 12.00–15.00. *News*:06.00, 13.00. *Chinese*: 09.00–12.00. *News*: 09.00.CR9XL: *Chinese*: 00.30–10.15. *Portuguese and English*:

12.15–15.00. No news.

Announcement R. Vila Verde: English: "This is Radio

Vila Verde, Macau".

Interval-Signal: CR9AA: Chimes: D (sharp) – C (natural) – D (sharp) – G (sharp) – CR9XL: Chimes: G – D – E – C. – Verification CR9AA by QSL-card.

MALAYA**BRITISH FAR EASTERN BROADCAST. SERVICE (see Gt. Britain).****RADIO MALAYA**

Address: Department of Broadcasting, P.O. Box No. 3002, Singapore. Cable: Broadcast, Singapore.

Leading Personalities: Director: H. W. Jackson. Act. Deputy Directors: H. H. Beamish, A. T. Read and E. H.

Wilson, O.B.E., E.D. Director of Eng.: G. S. Miller, B. Sc. (Eng.), A.M.I.E.E. Chief Adminstr. Officer: D. A. Stephen. Director of School Broadcasts: E. H. Wilson, O.B.E., E.D., M.A. (Cantab.). Chief News Editor: K. Sutton.

HOME SERVICE:**Blue Network***English-Malaya*

kc/s m kW

Singapore 630 476 10

Penang 820 366 2

Kuala- 875 343 10

Lumpur 6025 49.80 5

Singapore 7200 41.67 5

Singapore 4820 62.24 5

Malacca (one network only): 1010 kc/s 297 m 0.25 kW.

Green Network: Chinese:

Singapore 1370 kc/s 228 m 10 kW – 6175 kc/s 48.60 m 5 kW

Blue Network: 630 kc/s: 23.00–15.30. 4820 kc/s: 23.00–

01.30. 7200 kc/s: 01.30–15.30.

Red Network: 790 kc/s: 23.00–15.30. 5010 kc/s: 23.00–

01.30. 6135 kc/s: 01.30–15.30.

Green Network: 1370, 6175 kc/s: 09.30–15.30.**English News Bulletins:** 00.00, 06.00, 11.30, 14.00.

Times quoted do not include short breaks, when no transmissions are being radiated.

Announcements: In *English, Malay, Chinese, Indian*: "This is the (Blue, Red or Green) network"; or "This is Radio Malaya, (Singapore), (Kuala Lumpur), (Penang) or (Malacca)".

Interval-Signal: C-C-A-G on a Hawaiian Guitar.

Verification by QSL-card.

FORCES BROADCASTING SERVICE

Address: Cpt. J. Edridge, OC, Signals G.H.Q., Singapore.

Station: 5010 kc/s 59.88 m 7.5 kW.

Daily Programmes: 12.00–14.00.

12.00–12.30 *Chinyanja, Chitonga*, 12.30–13.00 *Fyian*,13.00–14.00 *Gurka*. – Verification by QSL-card.**MONGOLIA****RADIO ULAN BATOR, Ulan Bator.**

Stations: Ulan Bator.

5260 kc/s 57.03 m – 6325 kc/s 47.44 m – 8000 kc/s 37.50 m

Daily Programmes: In *Mongolian, Chinese and Russian* 15 hours daily. At 09.00–15.00 on 6325 kc/s.**NEPAL****RADIO NEPAL, Kathmandu.**

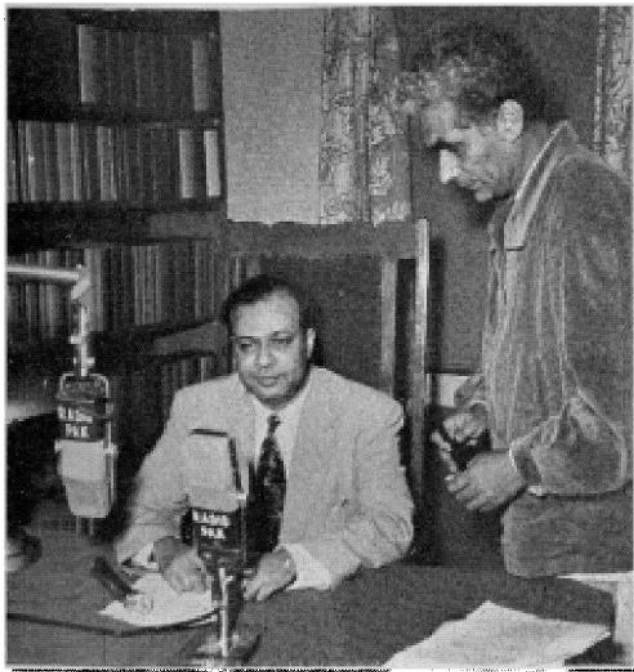
Leading Personality: Superintending Eng. K. B. Khatry.

Stations: 1500 kc/s 200 m 0.08 kW – 7100 kc/s 42.25 m 0.25 kW.

Daily Programmes in *Nepali, Hindi and English*:On 7100 kc/s: 02.50–04.20. *News in Nepali*: 03.50–04.05.*News in Hindi*: 04.05–04.15. *News in English*: 04.15–04.20.On 1500 kc/s: 12.50–14.20. *News in Nepali*: 13.20–13.30.Testtransmissions in *Hindi, Pathani, Tamil and French* for Afghanistan, West Pakistan, India and Western countries on 9856 kc/s 11.30–15.15.**PAKISTAN****RADIO PAKISTAN (Government)**

Address: Directorate General, Radio Pakistan, 71 Garden Road, Karachi 3. Cable: "Pakbroadcast".

Leading Personalities: Director General: Z. A. Bokhari. Chief Engineer: R. Ahmad. Deputy Director General (Programmes): R. Ahmed. Deputy Director General (Administration): A. Salman. Dir. of News: Sh. Ihsanul Haque. Assistant Chief Engineer: B. Ahmad. Dir. of Staff Training and Music: S. S. Niazi. Dir. of External Services and Monitoring: G. K. Farid. Engineer-in-Charge, High Power Transmitters: S. Shah. Maintenance Engineer: M. A. Rahman. Dir. of Programme: S. A. Hafeez. Public Relations Officer: H. Naseem. Administra-



Radio Pakistan: The Hon'ble Mr. Muhammad Ali, Prime Minister (sitting) after his broadcast from Broadcasting House photographed with Mr. Z. A. Bokhari, Director General, Radio Pakistan.

Executive Officer: K. A. Mukhtar. Research Engineer: S. A. Aziz. Editor-in-Charge, Radio Journals: G. Abbas. Station Directors: Karachi: A. Nasri. Dacca: A. Haque. Lahore: A. Ahmad. Peshawar: M. Nizami. Rawalpindi: A. Qutb. Station Engineers: Karachi: I. A. Ansari. Dacca: S. Hasan. Lahore: G. Geelani. Peshawar: S. Ahmad. Rawalpindi: M. Sharif.

HOME SERVICE (National Service)

A=Arabic, Ba=Baluchi, Be=Bengali, E=English, K=Kashmiri, Pa=Pashto, Po=Pothohari, Pu=Punjabi, Pus=Pushto, S=Sindhi, U=Urdu.

Network I:

	kc/s	m	kW		
Peshawar	629	476.9	10	D.: 02.25-04.30, 07.30-09.00, 12.00-17.30	A, E, U, Pa
Karachi	825	363.6	10	W.: 02.25-04.00, 07.00-09.30, 12.30-18.00. Sun. 02.25-09.30.	A, U, E, S
Lahore	1086	276.2	5	D.: 02.25-04.30, 07.00-09.00, 12.30-18.00.	A, U, E, Pu
Lahore (zonal)	3915, 6138, 7284, 3335, 4785, 7284	4785, 6138, 7284, 4785, 7284	1, 1, 1	D.: 02.25-14.30, 07.00-09.00, 12.30-18.00	A, U, E, Pu
Dacca	1167	257.1	5	D.: 01.00-03.30, 05.30-07.30, 11.00-16.30	A, E, B, U
Dacca (zonal)	4807, 6112, 7150, 6120, 7150, 9614, 3955, 4807, 6120	6112, 7150, 9614, 4807, 6120	7.5, 7.5, 7.5	D.: 01.00-03.30, 05.30-07.30, 11.00-16.30	A, E, B, U
Rawalpindi	1150	260.9	10	D.: 02.25-04.30, 07.30-09.00, 12.00-17.30	A, E, U, Po

FM: Karachi (0.25 kW) 88.3, 89.3, 90.3, 92.0, 102.0 mc/s. Used for studio to transmission link.

News: *) English: 02.30-02.45, 07.00-07.10, 08.30-08.40, 12.30-12.40, 15.15-15.30. *) Urdu: 02.45-03.00, 08.40-08.50, 12.40-12.50, 15.30-15.45. Bengali (Dacca): 02.15-02.30, 07.10-07.20, 14.00-14.45. Pashto (Peshawar): 03.20-03.30, 08.20-08.30, 12.50-13.00. Sindhi (Karachi): 13.00-13.10.

*) relayed by all stations of R. Pakistan.

Network II: To West Pakistan.

	m.b.	kW		
Karachi	60, 49, 41, 50, 49, 41, 31, 50, 85, 75, 60, 50, 49, 41	02.25-04.00, 07.30-09.30, 12.30-15.45	A, E, U, Pus, E, U, Pus, E, U, Pus, K, Ba, Be	
Dacca	25, 19	7.5 03.45-04.00	U, Be	

News: English, Urdu, Pashto: As Network I. Bengali (relayed by Dacca): 07.10-07.20, 14.30-14.45. Kashmiri: 13.00-13.10. Baluchi: 13.15-13.30.

Network III: To East Pakistan.

	m.b.	kW		
Karachi	31, 25, 19, 50, 25, 19, 16, 50, 31, 25, 19, 50	02.15-04.00, 07.00-09.30, 12.30-15.45	Be, E, U, A, Pus, E, Be, U, Pus, E, U, Be	

News: English, Urdu, Bengali: As Network I. Pashto (relayed by Peshawar): 03.20-03.30, 08.20-08.30. Dictation News in English: D.: 18.10-18.30. Lessons in Urdu (from Dacca): 01.40-01.50 (Mo., Wed.).

Announcement: The name of the station (Radio Pakistan, Karachi, Lahore, Peshawar, Rawalpindi, Dacca) and the frequency of the particular transmission are announced. In English: "This is Radio Pakistan". In Urdu: "Yeh Radio Pakistan he".

FOREIGN SERVICE (International Service):

kc/s	m	kc/s	m	kc/s	m	kc/s	m
21690	13.83	11914	25.18	9645	31.10	6112	49.06
21630	13.87	11885	25.24	9518	31.62	6075	49.38
21580	13.90	11845	25.33	9484	31.63	6035	49.71
21570	13.91	11770	25.49	7655	39.19	5990	50.08
17835	16.82	11726	25.58	7263	41.31	5980	50.17
17770	16.88	11674	25.70	7150	41.96	4910	61.10
17750	16.90	11650	25.75	7140	42.02	4807	62.41
15335	19.56	11580	25.91	7096	42.27	3955	75.85
15270	19.65	11570	25.93	7010	42.80	3915	76.63
15255	19.67	9755	30.75	6235	48.12	3395	88.37

A=Arabic, B=Burmese, E=English, G=Gujrati, I=Iranian, P=Persian, U=Urdu.

Time	Service	Lang.	Nov./Feb.	Mar./Apr.	May/Aug.	Sep./Oct.
19.45-20.30	Turkey	E	75, 49, 41, 31	49, 41, 25	41, 31, 25	49, 41, 31
20.30-21.15	U.K.	E	75, 49, 41, 31	49, 41, 25	41, 31, 25	49, 41, 31
01.15-02.00	S.E. Asia	E, U	31, 25, 31, 25	31, 25, 31, 25	31, 25, 31, 25	31, 25, 31, 25
04.15-05.00	E.S. Africa*	G	19, 16, 41, 31	19, 16, 41, 31	19, 16, 41, 31	19, 16, 41, 31
09.45-11.00	S. Asia	U	31, 19, 41, 31	31, 25, 41, 31	31, 25, 41, 31	25, 19, 41, 31
11.30-12.15	Indonesia	E	19, 16, 41, 31	19, 16, 41, 31	19, 16, 41, 31	19, 16, 41, 31
13.30-14.15	Burma**	B	25, 19, 41, 31	25, 19, 41, 31	25, 19, 41, 31	25, 19, 41, 31
16.00-17.00	Afghanistan***	A, P	85, 49, 41, 31	85, 49, 41, 31	85, 49, 41, 31	85, 49, 41, 31
17.15-18.00	Iran****	I	75, 49, 41, 31	49, 41, 41, 31	49, 41, 41, 31	49, 41, 41, 31
18.10-18.30	Middle East§	E	49, 41, 41, 31	49, 41, 41, 31	49, 41, 41, 31	49, 41, 41, 31
18.30-19.30	Middle East†	A	49, 41, 41, 31	49, 41, 41, 31	49, 41, 41, 31	49, 41, 41, 31

News: * 04.20, ** 13.35, *** 16.05, **** 17.20, § 18.10, † 18.35.

Announcement: English: "This is Radio Pakistan".
Verification: by QSL-card or letter. Return postage not necessary.

Future-Plans: The process of building up Radio Pakistan continues. The second phase of the first development plan

is now in hand. It comprises a number of projects of which some are already at various stages of completion. Of these, the important ones are the setting up of two 10 kW short-wave transmitters at Karachi, a 10 kW short-wave transmitter at Peshawar, a 10 kW medium-wave transmitter at Hyderabad (Sind) and three satellite stations in East Pakistan.

SAUDI ARABIA

SAUDI ARABIAN BROADCASTING SYSTEM, Mecca

Stations: Djeddah 3 kW.

725 kc/s 413.8 m 5975 kc/s 50.21 m 7245 kc/s 41.41 m
3950 – 75.95 – 6100 – 49.18 – 9650 – 31.09 –
3960 – 75.75 – 6175 – 48.58 – 11850 – 25.32 –
3980 – 75.37 – 7100 – 42.25 – 11950 – 25.10 –

HOME SERVICE in Arabic:

04.15–05.00 { Aden Yemen (76 m.b.), Red- and Persian
17.25–18.15 { Gulf Area (75 m.b.), Masira and Mosira
{ Gulf Area (41 m.b.), Syria, Lebanon, Iraq,
{ Transjordan (49 m.b.)
11.15–11.45 { Aden Yemen (76 m.b.), Red- and Persian
15.55–16.45 { Gulf Area (50 m.b.), Masira and Mosira
{ Gulf Area (31 m.b.), Syria, Lebanon, Iraq,
{ Transjordan (25 m.b.)

FOREIGN SERVICE:

13.00–13.40 Urdu 25 m.b., to Pakistan.

14.00–14.40 Indonesian 25 m.b. to Indonesia.

Announcement: “Il-eza’a la azikiyah l’ilmamlakat es Sao-
udiyah”. **Interval-Signal:** 8 notes played on a native flute.
Verification by letter.

Future-Plans: A 100 kW transmitter planned for program-
mes in English, Turkish and other languages.

SYRIA

SYRIAN BROADCASTING SERVICE (Government)

Address: Rue de la Victoire, Damascus.

Stations: Medium Waves:

Damascus 602 kc/s 500.2 m 2 kW, 665 kc/s 451.2 m 50 kW
Aleppo 719 kc/s 417.2 m 20 kW

Short Waves: Damascus:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
6060	49.50	0.5	7145	41.99	7.5	11750	25.53	0.5
6135	48.90	7.5	9525	31.50	7.5	11915	25.17	20
6165	48.66	20	9555	31.40	20	15395	19.49	20
6200	48.39	7.5	11695	25.65	20	17865	16.80	20

HOME SERVICE in Arabic, English and French:

Arabic: 04.30–07.00 on 665, 6165 kc/s, 07.00–07.30 on
602 kc/s, 11.30–13.00 on 719, 6165 kc/s, 15.00–18.00
on 719, 6165, 9525, 11695 kc/s, 18.00–19.30 on 719,
11695 kc/s, 19.30–20.00 on 602, 719, 9525, 11695 kc/s.
English: 10.00–
11.30 on 602, 719, 7145 kc/s. **French:** 07.30–10.00 on 719
kc/s, 13.00–14.00 on 602, 7145 kc/s.

FOREIGN SERVICE:

English: 21.30–22.30 on 11915 kc/s to Europe.

French: 20.30–21.30 on 11915 kc/s to Europe.

Hebrew: 14.00–15.00 on 665, 719, 6165 kc/s

Arabic and English: 14.45–15.45 on 11695 kc/s to India,
Pakistan.

Arabic/Spanish/Portuguese: 00.00–02.00 on 11695, 11915
kc/s to Central and South America.

Turkish: 18.15–19.15 on 6165 kc/s to Turkey.

Announcement: in Arabic: “Huna Dimashq”. In English:
“Here is Damascus”. In Turkish: “Burasi Cham”.

Verification by QSL-card.

Future-Plans: Service to N. America and German speak-
ing countries.

TAIWAN (Formosa)

BROADCASTING CORPORATION OF CHINA

Addresses: Broadcasting Corporation of China, Broad-
casting House, No. 53, Ren Ai Road, Section 3, Taipei,

Taiwan, China. – Broadcasting Corporation of China,
Central Broadcasting Station, New Park, Taipei, Taiwan,
China.

HOME SERVICE in Mandarin, Amoy:

	kc/s	m	kW		kc/s	m	kW
BED22	750	400	10	21.30–02.00, 09.00–15.00			
BED9	1020	294	20	02.30–07.40, 09.00–15.00			
BED29	6095	49.22	3.5	21.30–24.00, 02.30–04.00, 09.00–15.00			

FOREIGN SERVICE:

	kc/s	m	kW		kc/s	m	kW
BED2	670	448	100	BED6	11735	25.56	50
BED29	6095	49.22	3.5	BED4	11920	25.17	20
BED7	7130	42.10	20	BED3	15235	19.69	20

To China, Japan, Korea, Malaya in resp. languages:

22.30–04.00 on 670, 7130, 11735 kc/s

04.00–05.30 on 670, 6095, 7130 kc/s (from 05.00 also on
11735 kc)

10.30–17.30 on 670, 7130, 11735 kc/s

News at dictation speed: 04.00–05.30, 16.00–17.30.

News: Japanese 10.35, Malayan 12.45.

To U.S.A. in English, Mandarin, Cantonese:

04.00–07.00 on 11735, 15235 kc/s.

To Europe, Near East:

19.00–21.00 on 11920 kc/s.

19.00 Chinese, 19.05 Russian, 19.20 English, 19.50 French,
20.20 Arabic, 20.35 Mandarin.

Announcement: For each foreign language broadcast:

“This is the Voice of Free China from the radio station
of B.B.C. operating on 15235 and 11735 kc/s in the 19
and 25 m.b. This program for the benefit of our English-
speaking friends in the U.S. of America can be heard
every day from 04.00 to 05.00 GMT (in European Service
from 19.00–21.00 GMT).”

Verification by QSL-card. Return postage not required.

MILITARY BROADCASTING STATION – BEC26.

Address: Tso Ying Kao Hsung, City, Taiwan, Free China.

Leading Personalities: Dir.: Major Sung Yang Yao.
Chief Eng.: Wei Yung Shun. Vice-Dir.: Liang Hang
Chung.

HOME SERVICE in Chinese: The Voice of Army BEC26:

1330 kc/s 225.6 m 1.5 kW – 10200 kc/s 29.40 m 1.5 kW.

Daily Progr.: 22.30–23.30, 03.30–05.30, 09.00–14.00.

Verification by letter.

THE VOICE OF RIGHTEOUSNESS (Religious).

Address: Shih-Lin, Taipei.

Leading Personality: Dir.: S. H. Shia.

Stations

	kc/s	m	kW	
The Voice of	BEC36 1080	277.6	0.5	Chinese
Righteousness	BEC36 7300	41.10	3.5	English
Cheng Sheng R. Stat.	BEV34 810	370.3	0.5	Chinese

**HOME SERVICE for BEC36 to Taiwan and Chinese
Mainland:** 20.40–23.35, 02.30–04.00, 12.00–16.30.

News in Chinese: 20.45, 02.30, 12.10, 13.10, 14.10, 15.10,

15.35. – **News at dictation speed in Chinese:** 15.40–16.30. –

News in English: 22.40–23.00 – **English Bible Class:** 23.00–

23.15 – “Bible in action” (English): 23.15–23.30 – **National**

Anthem: 20.40, 12.00. – **Verification** by letter.

THAILAND

THE THAI NATIONAL BROADCASTING STATION (Govt.).

Address: The Thai Broadcasting Station, Public Relations
Department, Bangkok. **Cable:** “Radio Thailand”.

Leading Personalities: Director-General, Major-General:

M. L. Kharb Kunjara. Deputy Director-General: P.

Hongsanan. Dir. Overseas Services: Chamnong Rang-

sikul. Dir. Spoken Word (English): Dr. Witt Siwasariya-

non. Dir. Techn. Services: Leut. P. Yangprida R.N. Dir.

Home Service: S. Srichumsin. Dir. News (Home Service):

A. Tanthawatana. Dir. Talks (Home Service): I. Kancha-
naguha.

Thailand - Yemen

HOME SERVICE in *Thai*: D.: 00.00-01.00, 11.30-15.20.

	kc/s	m	kW		kc/s	m	kW
HSK	825	363.0	10	HSK5	6240	48.07	1
HSK6	7140	42.02	1	HSK7	11910	25.18	0.5
HSK8	15640	19.18	0.25				

News: 00.25, 13.00.

Besides the national stations, there are at present eight experimental stations using low-powered transmitters operated by government departments.

FOREIGN SERVICE:

HSK9 11670 kc/s 25.64 m 50 kW.

General Overseas Service: D.: 10.00-12.15.

10.05: *News in English* - 10.20: Musical Half-Hour - 10.50: Talk or Press Review - 11.00: *News in Chinese* (*Kuoyu*) - 11.15: *News in Malay* - 11.30: Progr. for Thai Forces in Korea (Relay Home Service).

For Thai nationals abroad in Thai: 13.00-14.00 (Relay Home Service).

North American Service in English: 04.15-05.15. - *News*: 04.25-04.40.

Announcements: Opening and closing *Overseas Service*: "This is the Overseas Broadcasting Station of Thailand", in between: "This is Radio Thailand" or "This is HSK9 transmitting the.... of Radio Thailand".

Interval-Signal: Chimes. - **Verification** by QSL-card. Return postage not required.

Future-Plans: Regional stations for Home Service and Programmes for Europe in 1954.

THAI ARMY RADIO, Bangkok.

HSIJS 4875 kc/s 61.54 m 0.25 kW: In *Thai*: 11.30-12.00.

TRANSJORDAN

Hashemite Jordan Broadcasting Service.

Address: Controller General of the Hashemite Jordan Broadcasting Service, Ramallah, Hashemite Kingdom of the Jordan.

677 kc/s 443.0 m 20 kW.

Daily Progr.: 05.00-05.45, 11.30-12.30, 15.15-19.30. *News*:

Arabic 05.00, 12.00, 16.00, 19.00. - *English*: 11.30, 15.15.

Announcement: (in English): "This is the Hashemite Jordan Broadcasting Service calling from Jerusalem".

Verification by letter. Return postage not required.

TURKEY

RADIO ANKARRA (Government)

Address: Press, Broadcasting and Tourist Department, Ankara. *Cable*: "Yayain".

Leading Personalities: Dir. Gen.: Dr. H. Alyot. Dir. Radio Branch: R. A. Sevengil. Dir. Radio Ankara: M. M. Bekman. Dir. Radio Istanbul: M. Cemil. Dir. Radio Izmir: U. Demiriz.

HOME SERVICE in Turkish:

Ankara TAR 182 kc/s 1648 m 120 kW 05.30-07.00, 10.00-12.00, 15.00-21.00.

Istanbul TAW 701 - 428 - 150 - 11.00-13.00, 16.00-22.00.

Izmir TAZ 6600 - 45.45 - 0.5 - 14.00-20.30.

News: 05.45-06.00, 11.00-11.15, 17.00-17.15, 20.45-21.00.

Announcements: "Burasi Ankara". "Burasi Istanbul". "Burasi Izmir".

FOREIGN SERVICE

	kc/s	m	kW		kc/s	m	kW
TAN	6000	50.00	20	TAK	11760	25.51	20
TAM	7240	41.44	20	TAU	15160	19.79	100
TAS	7285	41.18	100	TAQ	15195	19.74	20
TAP	9465	31.70	20	TAD	17720	16.93	20
TAT	9515	31.53	100	TAV	17820	16.84	100

ME=Middle East. E=Europe. NA=North America. SA=South America. I=Iran. A=Afghanistan. I/P=India/Pakistan.

		Oct./Dec. Wavelength	Jan./March Wavelength	Apr./June Wavelength	July/Sept. Wavelength
Arabic					
16.30-17.00	ME	31.7	31.7	31.7	31.7
English					
21.00-21.45	E	41.18/31.7	41.18/31.7	31.7/19.79	31.7/19.79
23.15-24.00	NA	31.53	31.53	31.53	31.53
French					
20.15-20.45	E	41.18	41.18	19.79	19.79
German					
19.30-20.00	E	41.18	41.18	19.79	19.79
Greek					
17.15-17.45	E	41.18/31.7	41.18/31.7	41.18/31.7	41.18/31.7
Hungarian					
19.00-19.15	E	41.18/31.7	41.18/31.7	31.7/19.79	31.7/19.79
Italian					
19.30-20.00	E	31.7	31.7	31.7	31.7
Persian					
16.00-16.30	I	31.7	31.7	31.7	31.7
Polish					
19.15-19.30	E	41.18/31.7	41.18/31.7	31.7/19.79	31.7/19.79
Pushtu					
15.00-15.15	A	31.53	16.84	16.84	31.53
Rumanian					
17.45-18.00	E	41.18/31.7	41.18/31.7	41.18/31.7	41.18/31.7
Serbo-Croat					
18.30-19.00	E	31.7	31.7	31.7	31.7
Spanish					
22.30-23.00	SA	31.53	31.53	31.53	31.53
Turkish					
20.00-20.15	Home	41.18/31.7	41.18/31.7	31.7/19.79	31.7/19.79
20.05-21.00	Service	31.7	31.7	31.7	31.7
Urdu					
14.30-15.00	I/P	31.53	16.84	16.84	31.53

Announcements: Arabic: Houna Ankara. English: This is Radio Ankara, Turkey. French: Ici Ankara. German: Hier ist Ankara. Greek: Etho Ankara. Hungarian: Halloit Ankara. Italian: Qui Radio Ankara. Persian: Indja Ankara. Polish: Tumowi Ankara. Pushto: Da de Ankara Radyo da. Rumanian: Aic Ankara. Serbo-Croat: Ovde Ankara. Spanish: Aqui Habla Radio Ankara, Turquia. Urdu: Ye Ankara ki Radyo he.

Interval-Signal: An old Turkish Dance Tune: Sari-Zeybek.



Verification by QSL-card. No return postage is required.

Future Plans: Three new 50 kW m. w. st. will be opened approx. in the beginning of 1955.

TECHNICAL UNIVERSITY OF ISTANBUL

Address: Technical University, Radio Laboratory, Istanbul.

Stations: 6400 kc 46.86 m 1 kW 7030 kc 42.67 m 0.5 kW.

Daily Programmes in Turkish: 18.15-20.00 (exc. Sat.). Progr. consist of western classical music.

Interval-Signal: Turkish march by Mozart.

Verification by letter.

TECHNICAL SCHOOL OF ISTANBUL

Address: The Technical School, Radio Laboratory, Yildiz, Istanbul.

Station: 6690 kc/s 44.80 m 0.2 kW: Sun. 07.00-09.00, D.: 17.00-18.00: Western and Turkish recordings.

YEMEN

Station: Sanaa 7385 kc/s 40.62 m 1 kW.

Daily Programmes: 16.30-17.15. **Announcement**: "Houna San'a".

PACIFIC

AUSTRALIA

AUSTRALIAN BROADCASTING COMMISSION (Government)

Addresses: A.B.C. Head Office: Box 487, G.P.O., Sydney.
Overseas Service: "Radio Australia", P.O.Box 780 H,
G.P.O., Melbourne.

Leading Personalities: Chairman: R. J. F. Boyer. Gen.
Man.: C. J. A. Moses. Asst. Gen. Man.: A. N. Finlay.
Controller of Progr.: Dr. K. L. Barry. Dir. of Overseas
Service: R. Wood.

MEDIUM WAVE SERVICE (*=Metropolitan, †=Regional).

Australian Capital:

2CN Canberra* 1540 2 2CY Canberra† 850 10

New South Wales:

2BL Sydney* 740 10 2NB Broken Hill† 760 1
2FC Sydney* 610 10 2NC Hunter
2CO Riverina† 670 7.5 River† 1230 2
2CR Central† 550 10 2NR N. River† 700 7
2LG Lithgow† 1570 0.2 2NU N. Tablelds.† 650 10
2NA Hunter- 2TR Manning
River† 820 2 River† 720 0.2

Victoria:

3AR Melbourne* 620 10 3GI Gippsland† 830 7
3LO Melbourne* 770 10 3WI Western† 580 10

Queensland:

4QG Brisbane* 790 10 4QL Longreach† 540 0.2
4QR Brisbane* 590 10 4QN North† 630 7
4AT Aterthon† 680 0.5 4QS Darl. Downs† 750 10
4QA Mackay† 720 2 4RK Rockhampt.† 940 2
4GM Gympie† 1570 0.2 4QY Cairns† 890 2
4QB Wide Bay† 910 2 4SO Southport† 1590 0.2

South Australia:

5AN Adelaide* 890 2 5CK North† 640 10
5CL Adelaide* 730 5 5LN P. Lincoln† 1530 0.2

Western Australia:

6WF Perth* 690 5 6GF Goldfields† 720 2
6WN Perth* 810 6 6GN Geraldton† 830 2
6WA South West† 560 10

Tasmania:

7ZL Hobart* 600 2 7NT North† 710 7
7ZR Hobart* 1160 0.5

Northern Territory:

5AL Alice Springs† 1530 0.05 5DR Darwin† 1500 0.2

Papua: 9PA P. Moresby 1250 0.5

SHORT WAVE SERVICE (Domestic)

Sydney, N.S.Wales, VLI-2 kW. Address: A.B.C. Box 487,
G.P.O.

VLI6 6090 kc/s 49.26 m. D.: 20.00(Sun. 20.30)-13.30
(Sat. 14.00).

Melbourne, Victoria (Lyndhurst) VLH 10 kW, VLR 5 kW.
Address: A.B.C. G.P.O.

VLH11 11880 kc/s 25.25 m 20.00(Sun. 20.30)-23.15
VLH15 15230 - 19.70 - 23.30-08.15

VLH9 9680 - 30.99 - 08.30-13.30(Sat. 14.00)
VLR6 6150 - 48.78 - 20.00(Sun. 20.30)-22.15,

08.30-13.00
VLR9 9680 - 30.99 - 22.30-08.30

Brisbane, Queensland VLQ 10 kW, VLM 10 kW.

Address: A.B.C., Box 293 E, G.P.O.

VLQ9 9660 kc/s 31.06 m. W.: 20.00-13.30 (Sat. 14.00)

VLM4 4920 - 60.98 - Sun.: 20.30-13.00.

Perth, W. Australia VLW 2 kW, VLX 10 kW.

Address: A.B.C. Box 190 D, G.P.O.

VLW9 9610 kc/s 31.22 m 22.00(Sun. 22.30)-02.15,
10.15-15.30 (Sat. 16.00)

VLW11 11830 - 25.36 - 02.30-10.00

VLX4 4897.5 - 61.26 - 22.00(Sun. 22.30)-02.15,
10.15-15.30 (Sat. 16.00)

VLX9 9610 - 31.22 - 02.30-10.00

Port Moresby, Papua, New Guinea VLT - 2 kW.

Address: A.B.C., P. Moresby.

VLT6 6130 kc/s 48.94 m Mo.-Fri.: 20.45-23.30, 01.00-
04.45, 06.00-12.45. Sat.: 20.45-22.30, 02.00-13.00. Sun.:
21.45-01.00, 02.00-04.00, 06.00-12.00.

FM. EXPERIMENTAL: M*lbourn 91.1 mc/s 2 kW;
Sydney 92.1 mc/s 2 kW; Adelaide 97.3 mc/s 0.25 kW.

FOREIGN SERVICE:

Stations: VLA, VLB=100 kW, VLC=50 kW, VLG=10 kW,
VLA, VLB, VLC=Shepparton. VLG=Lyndhurst.

	kc/s	m		kc/s	m
VLC7	7220	41.55	VLB11	11850	25.32
VLC7	7240	41.44	VLG11	11850	25.32
VLA7	7280	41.21	VLC11	11870	25.27
VLC7	7280	41.21	VLA11	11880	25.25
VLB9	9540	31.45	VLB11	11880	25.25
VLC9	9540	31.45	VLG11	11880	25.25
VLG9	9540	31.45	VLG11	11900	25.21
VLB9	9560	31.38	VLB11	11900	25.21
VLC9	9560	31.38	VLB15	15160	19.79
VLA9	9580	31.32	VLG15	15160	19.79
VLB9	9580	31.32	VLA15	15200	19.74
VLG9	9580	31.32	VLB15	15200	19.74
VLA9	9615	31.20	VLC15	15200	19.74
VLB9	9615	31.20	VLG15	15200	19.74
VLC9	9615	31.20	VLC15	15210	19.72
VLB9	9650	31.09	VLG15	15210	19.72
VLA9	9680	30.99	VLA15	15220	19.71
VLB9	9680	30.99	VLC15	15220	19.71
VLC9	9680	30.99	VLA15	15230	19.70
VLG9	9680	30.99	VLG15	15230	19.70
VLA11	11710	25.62	VLG15	15240	19.69
VLG11	11710	25.62	VLA15	15320	19.58
VLB11	11740	25.55	VLB15	15320	19.58
VLA11	11760	25.51	VLC15	15320	19.58
VLB11	11760	25.51	VLG15	15320	19.58
VLC11	11760	25.51	VLB17	17790	16.86
VLG11	11760	25.51	VLA17	17800	16.85
VLA11	11770	25.49	VLB17	17800	16.85
VLB11	11770	25.49	VLC17	17800	16.85
VLA11	11810	25.40	VLA17	17840	16.82
VLB11	11810	25.40	VLC17	17840	16.82
VLC11	11810	25.40	VLB21	21540	13.93
VLG11	11840	25.34	VLA21	21600	13.89
VLA11	11840	25.34	VLB21	21600	13.89
VLA11	11850	25.32	VLC21	21680	13.84

ENGLISH:

To. S. and S. E. Asia: kc/s News:
23.00-06.45 D. 17840 03.00, 04.00, 05.15, 06.00
23.15-02.55 Fri., Sat., 15320 (BBC)
Sun. 15320

02.55-06.00 D. 15320 03.00, 04.00, 05.15
06.45-09.45 D. 15320 09.00

10.14-17.30 D. exc.
Fri. 11900

10.14-11.15 Fri. 11900 11.00 (BBC), 11.10, 13.00,
11.45-17.30 Fri. 11900 14.30, 15.30, 17.00

11.00-11.45 D. 7220 11.00 (BBC), 11.10
11.00-13.55 D. 15320 11.00 (BBC), 11.10, 13.00

14.00-17.30 D. 9580 14.30, 15.30, 17.00
14.00-15.00 D. 7220 14.30

16.29-17.30 D. 7220 17.00

To Forces in Japan, Korea, N. Pacific Islands:

01.44-04.15 Sun. 17790
01.56-07.30 Sat. 18890 03.00-04.00

02.15-04.15 Mo.-Fri. 17790
08.28-10.00 D. 11810 09.00, 09.25 (dictation),
09.45 (Canadian F. News)

08.55-13.55 D. 9580 09.00, 11.00 (BBC), 13.00
20.59-23.00 D. 15160 21.45, 22.45

Australia - New Zealand

To South Pacific Islands:

20.00-23.00	D.	15200	20.30, 21.45, 22.45
		11760	20.30, 21.45, 22.45
06.45-07.30	D.	9580	- - -
06.59-07.30	D.	11760	- - -

exc. Sun.

06.59-07.30	D.	11850	- - -
07.30-08.15	D.	11760	- - -
08.30-09.45	D.	11850	09.00

To British Isles and Europe:

07.30-08.50	D.	9580	08.30
06.59-07.30	Sun.	11760	Forces Progr. for Malta
07.30-08.15	D.	11760	(for Southern Europe)

To North America:

12.00-13.45	D.	9615	(East Coast) 12.15, 13.15
15.15-16.15	D.	9615	(West Coast) 15.30
02.55-04.15	D.	15200	(West Coast) 03.45

FRENCH:

06.00-06.45	D.	15320	Indo-China 06.15
06.00-06.45	D.exc.Sat.	17790	Indo-China 06.15
06.00-06.45	D.	9580	Tahiti, Europe 06.15
07.30-08.30	D.	11850	N. Caledonia 08.00

INDONESIAN:

10.00-11.00	D.	7220, 15320	10.30
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THAI:

11.15-11.45	Fri.	11900	11.20
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DX-PROGRAMME: "Australian DX-ers Calling". Sun. at 04.00 to N. America (W. Coast), 07.45 to S. and S. E. Asia, Europe and S. Pacific Islands and 13.30 to N. America Coast.

Announcements: "This is Radio Australia Calling" or "This is Radio Australia transmitting the Overseas Service of the Australian Broadcasting Commission".

Tuning and Interval Signal: Music box playing "Waltzing Mathilda" for five minutes preceding transmissions. Transmissions commence with clock chimes and the laugh of the Kookaburra. Gongs are used as programme cues only. "Waltzing Mathilda" in March tempo precedes and concludes all New Bulletins. Indonesian transmissions open with "Waltzing Mathilda" played on piano-accordion with instrument ensemble. Thai transmissions open with "The People's Song" and conclude with the Thai National Anthem.

Verification by QSL-card. A 20 page Programme Guide is published quarterly and issued free of charge.

FIJI ISLANDS

RADIO SUVA

Address: Fiji Broadcasting Co., Ltd., P.O.Box 163, Suva.
Leading Personality: Engineer and Announcer: E.K. Broodbridge.

Stations: Suva ZJV.

930 kc/s	322.5 m	2 kW	5995 kc/s	50.04 m
3980 -	75.37 -	0.5 -	6100 -	49.18 -

HOME SERVICE: W.: 19.00-21.00, 00.00-02.00, 05.30-10.30. Sun.: 05.30-10.00 in *Fijian, Hindustani, English*.
News: 06.00 (BBC), 09.00 (ABC). **Verification by letter.**

GUAM

New Agana, Guam. 610 kc/s 491 m 1 kW.

HAWAII

RADIO STATION KTOH (Commercial)

Address: Box 1748 Lihue Kauai, Hawaii.

Leading Personalities: Man.: M. Sebastian. Progr. Man.: R. Sasaki. Chief Eng.: K. Nose.

Station: 1490 kc/s 201 m 0.25 kW.

Daily Progr. in English: 15.30-08.00. **News on the hour.**

VOICE OF AMERICA RELAY BASE

Address: Voice of America, P.O.Box 3740, Honolulu, Hawaii, or Voice of America, New York 19, N.Y., U.S.A.

Stations: Honolulu, 100 kW.

kc/s	m	kc/s	m	kc/s	m
6160	48.69	9650	31.09	15330	19.57
6195	48.43	11790	25.45	17800	16.85

Daily Programmes: 09.00-15.30 (See U.S.A.).

Announcement: "This is Honolulu, relaying the Voice of America". - **Verification by QSL-card.**

PRIVATE STATIONS, Commercial:

kc/s	kW	
550 KMVI	1	Maus Publ. Co., Wailuku
590 KGBM	5	Hawaiian Br. Sy., Honolulu
630 KPOA	5	Island Br. Co., Honolulu
690 KULA	10	Pacific Frontier Br. Co., Honolulu
760 KGU	2.5	Advert. Publ. Co., Honolulu
850 KILA	1	Island Br. Co., Hilo
860 KIKI	0.25	Kiki, Honolulu, Honolulu
920 KAHU	1	Rural Wagsahu, Oahu
970 KHBC	1	Hawaiian Br. Sy., Hilo
1110 KIPA	1	Big Island Br. Co., Hilo
1150 KANI	1	Windward Br. Co., Kanesche, Oahu
1380 KHON	5	Aloha Br. Co., Honolulu
1490 KTOH	0.25	Garden Isl. Publ. Co., Lihue

NEW CALEDONIA

Address: Radio Noumea "La Voix de la France dans le Pacifique", Service de l'Information, Noumea.

Stations: Noumea.

1500 kc/s	200 m	0.5 kW	6035 kc/s	49.71 m	1 kW
3375 -	88.89 -	1 -	-	-	-

Daily Programmes in French: 00.00-02.00, 07.00-10.30.

News: 01.00, 01.55, 08.30, 10.25

Announcement: "Noumea, La Voix de la France dans le Pacifique". **Verification by QSL-card.**

NEW GUINEA (Dutch)

Radio Omroep Nieuw Guinea te Hollandia.

A division of the Government Information Service for the benefit of Dutch and native inhabitants of the western half of the island.

Address: R.O.N.G. at Hollandia, Netherlands New Guinea.

Stations: 5045 kc/s 59.46 m 0.35 kW (National).

Daily Programmes in Dutch: Mo.-Fri. 09.30-12.00 (Thurs. 09.00-12.00), Sat. 03.00-04.00, 09.30-12.30. Sun.: 02.00-04.00, 09.30-12.00.

Announcement: "Hier Radio Omroep Nieuw-Guinea te Hollandia". - **Interval-Signal:** "Wij leven vrij, wij leven blij": sol do sol mi do mi sol sol sol. **Verification by QSL-card.**

NEW ZEALAND

Address: Radio New Zealand, P.O.Box 2396, Wellington N.Z. **Cable:** "Natbroadcast", Wellington N.Z.

Leading Personalities: Dir.: William Yates. Asst. Dir.: J. H. E. Schroder. Chief Eng.: W. L. Harrison. Supervisor of Talks.: J. H. Hall. Programme Supervisor (National): A. B. C. Young. Programme Supervisor (Commercial): L. R. Sceats. Shortwave Man.: U del'H Williams.

HOME SERVICE:

	kc/s	m	kW	
Wellington 2YA	570	526	60	18.00-10.30
Wellington 2YC	660	455	60	06.00-10.30
Christchurch 3YA	690	434	10	18.00-10.30
Invercargill 4YZ	720	416	5	18.00-10.30
Auckland 1YA	760	395	10	18.00-10.30
Dunedin 4YA	780	384	10	18.00-10.30
Rotorua 1YZ	800	375	10	18.00-10.30
Napier 2YZ	860	349	5	18.00-10.30
Auckland 1YC	880	341	10	05.00-10.30
Dunedin 4YC	900	333	2	05.00-10.30
Greymouth 3YZ	920	326	10	18.00-10.30
Palmerston North	940	319	2	19.00-10.30
Christchurch 3YC	960	312	10	05.00-10.30

	kc/s	m	kW	
Whangarei 1XN	970	309	2	18.00–10.30
Wellington 2ZB	980	306	10	18.00–10.30
Gisborne 2XG	1010	297	2	19.00–10.30
Dunedin 4ZB	1040	288	10	18.00–10.30
Auckland 1ZB	1070	280	10	18.00–10.30
Christchurch 3ZB	1100	273	10	18.00–10.30
Wellington 2YD	1130	265	0.5	07.00–10.00
Timaru 3XC	1160	258	2	19.00–10.30
Wanganui 2XA	1200	250	2	19.00–10.30
Auckland 1YD	1250	240	0.75	05.00–10.00
Hamilton 1XH	1310	229	2	19.00–10.30
Nelson 2XN	1340	224	2	19.00–10.30
New Plymouth 2XP	1370	219	2	19.00–10.30
Wellington 2YX	1400	214	1	

FOREIGN SERVICE: 7.5 kW each.

ZL7 6.080 49.34	ZL8 9.620 31.19	ZL14 17.820 16.84
ZL11 6.130 48.94	ZL3 11.780 25.47	ZL15 21.480 13.97
ZL12 7.220 41.55	ZL9 11.810 25.40	ZL16 21.580 13.90
ZL13 7.290 41.15	ZL10 15.220 19.71	ZL6 25.580 11.63
ZL18 9.520 31.51	ZL4 15.280 19.63	ZL17 26.000 11.54
ZL2 9.540 31.45	ZL5 17.770 16.88	

Two of the above frequencies are operated (with programmes in parallel) simultaneously from Radio New Zealand's two transmitters. Each has a power of 7.5 kilowatts.

18.00–06.45 Relay Home Service.

07.00–10.45 (Sat. 11.20. Sun. 10.00) "Calling Australia and the Isles".

18.00–21.45 on ZL8/ZL2 to Australia, on ZL18/ZL9 to Pacific.

22.00–06.45 on ZL9/ZL10 to Australia, on ZL3/ ZL4 to Pacific (to 04.45).

07.00–close down on ZL8/ZL2 to Australia, on ZL18/ ZL3 to Pacific. Close down 10.45.

News: 08.30, 10.30. – Mail Box: Fri. 09.15. – This Radio Age: 09.15 the first Tues. in each month presented by Mr. Cleve Costello.

Announcement: "This is Radio New Zealand, the Short-wave Division of the New Zealand Broadcasting Service", or "This is New Zealand Calling".

Interval-Signal: Call of native bird: the Tui.

Verification by QSL-card. Return postage not required. Questions in letters are replied to in "Mail Box" at 09.15 on Fridays.

PHILIPPINES

BACOLOD BROADCASTING COMPANY (Commercial)

Address: Kizal Street, Bacolod City, Negros Occ.

Station: Radio Bacolod

DYB-2 4985 kc/s 60.19 m 0.25 kW

Daily Programmes in English and Visayan: 21.00–15.00.

BOLINAO ELECTRONICS CORPORATION

Address: Vera Cruz Street, San Juan, Rizal (Commercial).

Stations: Rizal

Manila DZBC 1000 kc/s 300.0 1 kW

Manila DZI2 9550 kc/s 31.41 m 0.3 kW – relay DZBC

Daily Programmes: DZBC: 21.00–16.00. News in English: 22.45, 04.20, 09.45, 15.00.

FAR EAST BROADCASTING COMPANY INC.

Non-Commercial Missionary Broadcasting Station.

Address: Box 2041, Manila P.I. Cable: "Febcom".

Leading Personalities: Pres.: J. C. Broger. Vice-Pres.: R. H. Bowman. Executive Sec.: W. J. Roberts. Station Man.: M. D. Atienza. Transmitter Supervisor: D. C. Smith. Audio Supervisor: R. Kellum. Techn. Asst. R. Flores. Progr. Supervisor: Miss I. Adolphson.

Stations: "The Call of the Orient".

Call.	kc/s	m	kW	Call.	kc/s	m	kW
DZAS	680	441.2	6	DZH7	9730	30.83	2
DZFE	1030	291.5	2	DZH9	11855	25.31	2
DZB2	3345	89.68	2	DZH8	15300	19.60	2
DZH6	6030	49.75	2	DZI6	17805	16.85	1.5

HOME SERVICE (Philippine Service) in Tagalog and English:

On 680, 3345, 6030 kc/s: W.: 21.00–06.00, 08.00–14.15. News: In Tagalog: 22.30. In English: 00.00, 02.00, 04.00, 06.00, 08.05, 10.00, 12.00, 14.00.

On 1030 kc/s: 10.00–14.00 (This station is entirely a high class music station).

OVERSEAS SERVICE to Asian countries:

On 9730, 11855, 15300, 17805 kc/s: W.: 21.00–06.45, 08.00–17.00. Sun.: 21.00–17.00.

On 3345, 6030 kc/s: D.: 14.00–17.00.

Weekdays:

21.00 English	04.15 Russian	14.15 Hindi
21.30 Japanese	04.30 Cantonese*	14.30 Urdu*
22.30 Russian	Vietnam.**	Tamil
22.45 Indonesian	05.00 English	14.45 Bengali*
23.00 Mandarin	06.00 English	Telugu**
23.30 Vietnamese	06.30 Burmese	15.00 English
23.45 English	08.00 English	15.30 Marathi*
00.45 Thai	09.30 Amoy	Kanarese**
01.00 English	10.00 English	15.45 Gujarati*
01.30 Korean	10.15 Indonesian	Malayal.**
02.00 Cantonese	10.30 Japanese	16.00 Arabic
02.30 Mandarin	11.00 Thai	16.15 Persian*
03.00 Indonesian	11.30 Vietnamese	Turkish**
03.30 Japanese	12.00 English	16.30 Russian
04.00 English	14.00 English	

* Mo., Wed., Fri. ** Tues., Thurs., Sat.

Sundays:

21.00 English	23.30 English	11.00 Mandarin
21.30 Japanese	05.00 Japanese	11.30 Cantonese
22.30 Mandarin	05.30 English	11.45 English
23.00 Vietnamese	10.30 Amoy	16.30 Russian

Announcement: "This is the Call of the Orient" or "This is the Far Eastern Broadcasting Company, Manila". Station announcements in English are given every half-hour. (call-letters, frequencies and the time in the Philippines). – **Verification** by QSL-card.

Interval-Signal for Home and Foreign Service: On the hour only:



Future-Plans: Increase of powers of the 31 and 25 m.b. transmitters. A new transmitter operating on 21475 kc/s is expected to be ready in March/April 1954.

MANILA BROADCASTING COMPANY (Commercial)

Address: 7th Floor, Insular Life Building, Manila.

Leading Personalities: Pres.: F. Elizalde. Executive Vice Pres.: W. J. Dunn. Sales Man.: I. Davis. Engineering Dir.: J. M. Polmer. Station Man.: H. D. Bowie Jr.

The following stations are owned by the Manila Broadcasting Company. These stations operate on the same schedule throughout the year. One hour each day is devoted to Chinese language broadcast. The remaining time is divided approximately fifty-fifty between English language and local Philippine dialects. The only exception to the above being that there is one fifteen-minute newscast in Spanish language.

The Voice of the Philippines

Home Service in Chinese, English, Philippine dialects and Spanish: 21.00–15.00.

DZRH 650 kc/s 461.5 m 27.5 kW – DZH2 9640 kc/s 31.12 m 1 kW – DZH4 6000 kc/s – 50.00 m 1 kW.

The Voice of Manila

Home Service in Chinese, English, Philippine dialects and Spanish: 21.00–16.00.

DZMB 760 kc/s 394.7 m 1 kW – DZI7 6080 kc/s 49.34 m 0.3 kW

Announcements: "This is MBC, the Manila Broadcasting Company" followed by three chimes c, a and f.

Philippines – Ryukyu Islands

Verification by QSL-card. Return postage required.
The following station is owned by the Philippine Broadcasting Corporation and operated by the Manila Broadcasting Company.

THE MINDANAO COLLEGES BROADCAST. SYSTEM
Address: Davao City, Mindanao.

Home Service in *English*: 22.00–05.00, 07.00–14.15.
DXH-2 7280 kc/s 41.21 m 0.3 kW

Announcement: "This is MCBS, The Mindanao Colleges Broadcasting System. DXH-2, The Voice of Davao, broadcasting from the heart of Davao".

PHILIPPINE BROADCASTING CORPORATION (Commercial)

Address: Ramon Roces Building, 4th Floor, Manila.

Leading Personality: Station Dir.: S. O. Almario.

Home Service: 21.00–15.00. **Verification** by QSL-card.
DZPI 800 kc/s 375.0 m 10 kW DZH3 9500 kc/s 31.58 m 1 kW.

The following stations are owned by the Cebu Broadcasting Company and operated by the Manila Broadcasting Company.

The Voice of Cebu.

Address: Lim Bonfing Building, Cebu City.

Leading Personalities: Station Man.: R. Garcia. Engineering Dir.: Miss A. Maglaya.

Home Service: 21.00–15.00.

DYRC 600 kc/s 500.0 m 1 kW – DYH2 6140 kc/s 48.86 m 0.5 kW.

Cebu Calling

Station: DYBU 1260 kc/s 238.0 m 1 kW 21.00–15.00.
Verification by QSL-card.

THE PEOPLES STATION (Government owned but maintained by income on commercial programmes and announcements).

Address: 4th Floor, City Hall, Manila.

Leading Personalities: Managing Dir.: F. Trinidad. Progr. Dir.: E. Avelino. Traffic Chief: R. Forbes. Chief of Studios: L. Quintos. Chief Eng.: J. Dy.

HOME SERVICE: *Daily* 21.00–15.00.

DZFM 710 kc/s 422.5 m 10 kW

DUH2 6170 – 48.62 – 1 –

DUH5 11840 – 25.34 – 0.25 –

News in English: 21.15, 21.40, 23.45, 04.30–04.55, 12.45, 14.00. – *News in Tagalog:* 21.30, 21.45, 05.00. – **Verification** by QSL-card. Return postage requested.

THE REPUBLIC BROADCASTING SYSTEM

Address: Radio Station DZBB, 866 Espana Extension, Quezon City, Manila (Commercial).

Stations: Manila.

DZBB 580 kc/s 517.2 m 10 kW – DZ13 6110 kc/s 49.10 m 5 kW.

Daily Programmes:

21.00–17.00 in *English, Spanish, Chinese, Tagalog.*

SILLIMAN UNIVERSITY (Educat. and Missionary).

Address: Dumaguete City, Oriental Negros.

Leading Personalities: Administrative Director: H. R. Bell. Programme Director: C. Bernardez. Engineering Supervisor: Ted Haney.

HOME SERVICE in *English* and *Visayan*: 10.00–13.30.

DYSR 840 kc/s 357.1 m 1 kW

DYH4 6055 – 49.55 – 0.25 –

News: 11.15 (Tues., Fri.).

11.30–12.00 daily: Progr. of Christian thoughts. 12.00–12.30: Music. Mo. 12.30–13.00: Rebroadcast of VOA in *English*.

Announcement: "This is station DYSR and DYH4 with a call from the Philippines—for Christian living—and One-World Brotherhood".

Interval-Signal: At the opening chimes from the school bell. – **Verification** by letter.

Future-Plans: DYH4 1 kW 1954.

UNIVERSITY OF SANTO TOMAS

Address: Catholic University of Santo Tomas, Manila.

Home Service: 10.00–14.00 in *English, Spanish & Tagalog.*

DZST 860 kc/s 348.8 m 1 kW

DZH5 9690 – 30.96 – 0.25 –

Announcement: "This is the Voice of Catholic Philippines, stations DZST and DZH5, Manila".

Verification by QSL-card and/or letter.

VOICE OF AMERICA RELAY BASE, MANILA

Address: Voice of America, c/o American Embassy, Manila, or Voice of America, New York 19, N.Y., U.S.A.

Medium Wave: Manila-A 920 kc/s 326 m 50 kW: 11.30–15.30.

Short Wave: Manila 7.5/50 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6060	49.50	9535	31.46	11895	25.22	15250	19.67
6125	48.98	11890	25.23	15245	19.68	17760	16.89
9530	31.48					17780	16.87

Daily Programmes (s.w.):

07.15–08.45: Relay UN, 09.00–15.30: Relay VOA, 22.00–00.30: Relay VOA, see U.S.A. (VOA and UN) for details.

Announcement: "This is Manila, relaying the Voice of America". – **Verification** by QSL-card.

VOICE OF AMERICA RELAY BASE, SAN FERNANDO

Address: Voice of America, c/o American Embassy, Manila, or Voice of America, New York 19, N.Y., U.S.A.

Daily Programmes:

Medium Wave: Philippines-B, 1140 kc/s 263 m 1000 kW: 10.00–15.30.

10.00 Mandarin 12.00 Mandarin 14.00 Vietnamese

10.30 Amoy 13.00 Thai 14.30 Burmese

11.00 Cantonese 13.30 English 15.00 Mandarin

11.30 Amoy

Short Wave: 35 kW, 09.00–15.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6060	49.50	11700	25.64	15245	19.68	17760	16.89
9620	31.19	11890	25.23	15330	19.57		

Daily Programmes: See U.S.A.

Announcement: "This is the Voice of America Relay Base in the Philippines". – **Verification** by QSL-card.

PITCAIRN ISLAND

Address: Radio Station Z.B.P., Pitcairn Island.

Leading Personality: Public Relations Officer: F. H. McCoy.

HOME SERVICE in *English:* Z.B.P. 04.00–06.30, 16.00–18.30.

500 kc/s 600 m 0.5 kW 9200 kc/s 32.61 m

7859 kc/s 38.16 m 0.5 kW 12110 kc/s 24.77 m

Verification by letter.

RYUKYU ISLANDS

VOICE OF AMERICA RELAY BASE

Address: Voice of America Relay Base, APO 331, c/o Postmaster, San Francisco, California, or Voice of America, New York 19, N.Y., U.S.A.

Stations:

Medium Wave: Okinawa, 1180 kc/s 254 m 1000 kW: 09.30–15.30.

Short Wave: 35 kW: 09.00–15.30.

kc/s	m	kc/s	m
6145	48.82 m	11835	25.35 m
7160	41.90 –	15215	19.72 –

Daily Programmes:

10.00 Mandarin 12.00 Mandarin 14.00 Korean

10.30 Korean 13.00 Cantonese 14.15 Russian

11.00 Cantonese 13.30 English 15.00 Mandarin

11.30 Amoy

Announcement: "This is the Voice of America Relay Base in Okinawa". – **Verification** by QSL-card.

CANADA AND THE UNITED STATES OF AMERICA



The International Service, Canadian Broadcasting Corp.: The Dutch section from left Ton van Alphen, Maja van Steensel, Philip van Son, Jack Bax, Wim van Veen en Hankie Coenen.



Mr. Water S. Lemmon, president and founder of WRUL, speaks to the people of the world.

Raymond Swing internationally known news analyst, reviews the latest bulletin in his "Voice of America" office, prior to his overseas broadcast.

Ryukyu Islands - Canada

RYUKYU RADIO STATION (U.S. Civil Administr.).

Addresses: Studio and Office: Shuri City, Okinawa, Ryukyu. Station: Kakazu-ku, Tomigusuku-son, Itoman-Chiku, Okinawa.

Leading Personalities: Station Man.: C. Kabira. Chief Gen. Affairs: K. Nakai. Chief Broadc. Section: C. Kawahira. Chief Techn. Section: T. Toguchi.

HOME SERVICE in *Japanese*: KSAR 740 kc/s 405 m 3 kW. D.: 21.00-23.00, 02.30-04.00, 09.00-14.00.

Verification by letter. Return postage required.

Address: Radio Station KSAR, Naha, Okinawa Island. Operated by U.S. Civil Administration of the Ryukyu Isl. **Station:** KSAR 740 kc 405 m 3 kW: 02.00-03.00, 09.00-14.00 in *Japanese*.

SAMOA, WESTERN

Address: Broadcasting Department, Govt. of Western Samoa, Box 23, Apia. *Cable:* "Voxpac".

Leading Personalities: Dir. of Broadcasting: S. D. M. Smith. Chief Technician: J. P. Senior.

Stations: 2AP - Apia.

1420 kc/s 211.3 m 2 kW - *)6040 kc/s 49.67 m 0.2 kW *)3241 kc/s 92.56 m 0.2 kW *) for test purposes.

HOME SERVICE in *English & Samoan language*.

20.00-21.00 Mo.-Thurs. *School broadcasts in Samoan language.*

05.30-07.00 Tues., Thurs., Sat., Sun., Mo., *English.*

07.00-09.00 Tues., Thurs., Sat., Sun. (Mo. 07.00-08.00). *Samoan language.*

Verification by QSL-card.

SOLOMON ISLANDS (British)

Address: Radio Station VQO, Honiara: 1030 kc/s 292 m W.: 07.00-08.00.

TAHITI

Address: Le Directeur du Centre d'Information, Papeete.

Stations: Papeete.

FZP8 6135 kc 48.90 m 1 kW - FO8AA 6980 kc 42.98 m 0.2 kW.

Daily Programmes: *Tahitian* 21.30-22.00, 03.45-05.00. *French:* 22.00-22.30, 05.00-06.30. *News (English):* Sat. & Sun. 05.15.

Interval-Signal: Tahitian Drums.

Announcement: Ici Radio-Tahiti, la voix de la France.

Verification by QSL-card.

NORTH AMERICA

CANADA

CANADIAN BROADCASTING CORPORATION

(Government)

CBC INTERNATIONAL SERVICE

Address: Canadian Broadcasting Corporation, International Service, P.O.Box 6000, Montreal, Canada.

(*Cable:* "Intrad").

Leading Personalities: Acting Dir. Gen.: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Senior Engineer: F. P. Johnson. Press and Information Representative: R. Beriault.

Stations:

All international shortwave broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All programs are produced in Montreal and beamed from two 50-kilowatt transmitters at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25, 1945.

	kc/s	m		kc/s	m
CKNA	5970	50.25	CKRA	11760	25.51
CKRZ	6060	49.50*†	CKEX	11900	25.21
CKOB	6090	49.26*†	CKNX	11945	25.12
CHAC	6160	48.70*	CKLX	15090	19.88†
CKLP	9585	31.30†	CKCX	15190	19.75†
CHLS	9610	31.22†	CKCS	15320	19.58†
CKLO	9630	31.15†	CKNC	17820	16.84†
CKXA	11705	25.63	CKRP	21600	13.89
CHOL	11720	25.60†	CHLA	21710	13.82

* only in use in the winter period. † European Service.

EUROPEAN SERVICE

	Winter Nov.-Febr.	Equinox March-April Sept.-Oct.	Summer May-Aug.
	m.b.	m.b.	m.b.
12.20-14.05	19-16	19-16	19-16
14.05-16.30	19-16	19-16	19-16
16.30-18.00	25-19-16	19-16	
16.30-19.00			19-16
18.00-19.00	31-25	31-25-19	
19.00-23.30	49-31	31-25-19	25-19-16

Daily Programmes: R. = Relay.

12.20-14.05 R. for Canadian Forces in Europe (Sun).

12.55-14.05 R. for Canadian Forces in Europe (Sat).

13.45-14.05 R. for Canadian Forces in Europe (exc. Sat., Sun).

14.05-14.15 Announcements "Progr. Preview".

14.15-14.45 Russian. 14.45-15.15 Ukrainian (Sun 15.00)

15.00-16.00 Finnish & Swedish for Finland (Sun. only).

15.15-16.00 Progr. for Europe (Mo.-Sat.)

16.00-16.30 Polish 19.20-19.40 Norwegian

16.30-16.45 German 19.40-20.00 Danish

16.45-17.00 Dutch 20.00-20.30 German

17.00-17.30 English 20.30-21.00 Italian

17.30-17.45 Czech 21.00-21.30 Russian

17.45-18.15 French 21.30-22.00 French

18.15-18.45 Dutch 22.00-22.30 Czech

18.45-19.00 English 22.30-23.00 English

19.00-19.20 Swedish

23.00-23.30 Czech (Sat. Sun. only)

23.05-23.15 Programmes for Europe (exc. Sat. Sun.)

23.15-23.30 German (exc. Sat. Sun.)

LATIN AMERICAN & CARRIBEAN SERVICE

	Winter Nov.-Febr.	Equinox March-April Sept.-Oct.	Summer May-Aug.
	m.b.	m.b.	m.b.
23.50-04.00	31-25	31-25	
23.50-02.15			25-19
02.15-04.00			31-25

Daily Programmes:

23.50-01.00 Portuguese 02.30-03.00 English

01.00-02.00 Spanish 03.00-04.00 Spanish

02.00-02.30 French

AUSTRALIAN SERVICE (49 and 31 m.b.):

08.25-08.45 Relay for Canadian Forces in Korea.

08.45-09.50 English (Sun. & Wed. only).

NORTHWEST TERRITORIES & ARCTIC SETTLEMENTS SERVICE

D. 04.25-05.05 (to 05.50 Mondays - Nov. to April)

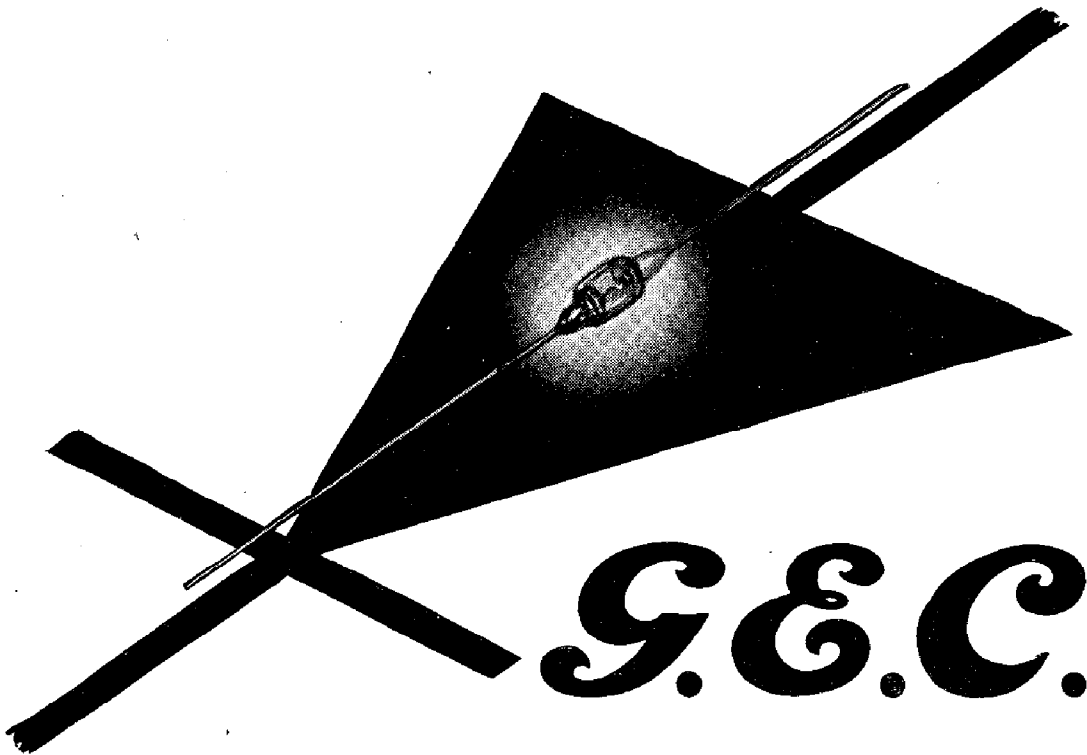
English in 49 and 31 m.b.

12.25-13.05 English (Mon. to Fri.) in 31 and 25 m.b.

Announcements: "This is the International Service of the Canadian Broadcasting Corporation". "Ici Radio Canada". "This is R. Canada".

Interval-Signal: First four notes of the National Anthem "O Canada":





GERMANIUM CRYSTAL DIODES

are indicated here because ...

The use of the Germanium Diode is now firmly established in current T/V practice — and indeed for Radio and Electronic equipment. The glass sealed type is recognised everywhere as being the most reliable and of the highest possible quality.

The design of the G.E.C. Germanium Diode was perfected over three years ago, since when no major alteration has been necessary. There is already a large range of types available, but this is continually being enlarged, and types are now obtainable that were previously restricted essential industries.

Type	Description	List Price
GEX 35	T/V vision detector	6/-
GEX 44/1	T/V sound detector and limiter	7/6d.
GEX 45/1	General purpose diode	10/-
GEX 55/1	High back resistance diode	16/-
GEX 54	High back resistance diode	£1.0.0
GEX 54/3	100 V diode	£1.5.0
GEX 54/4	150 V diode	£1.10.0
GEX 54/5	200 V diode	£1.15.0
GEX 66	100-1000 Mc/Sec Mixer	12/6d.
GEX 64	Telephone modulator	£1.0.0
GEX 34	Set makers version of GEX 44/1	—



They are of small size, low capacitance, and high forward conductance.



Being so small, they can be soldered directly into the part of the circuit where they are wanted.



Heater wiring and valve holders are not required, and they can be tried with great ease in various circuit arrangements.



The crystals are hermetically sealed in glass, making penetration by characteristic-destroying moisture impossible.



A minimum life of 10,000 hours means that they need not be easily accessible for replacement.

Data on specific types for special applications is available on request from the Osram Valve and Electronics Dept.

Canada

Message to Listeners: The CBC International Service greets short-wave listeners everywhere, and welcomes reports, queries and comments on reception and programs. Please write to Box 6000, Montreal. — **Verification:** by letter or QSL-card. No return postage required.

CBC HOME SERVICE

Abbreviations: N=Newfoundland. NS=Nova Scotia. PJ=Prince Edward Island. NB=New Brunswick. P=Pacific. QU=Quebec. O=Ontario. M=Manitoba. Sa=Saskatchewan. Al=Alberta. BC=British Columbia. W=Winnipeg. D=Daily Programmes. Pr.=Province. **Addresses:** Canadian Broadcasting Corporation, 140 Wellington Street, Ottawa, O (Head Office). Following are the locations of regional offices: T. A. Building, St. John's, N. (Newfoundland Region); United Services Building, Halifax, NS (Maritime Region); 1425 Dorchester Street West, Montreal, QU (QU Region); 354 Jarvis Street, Toronto, O (O Region); 541 Portage Ave W., M (Prairie Region); 701 Hornby Street, Vancouver, BC (P Region); *European Office:* 200 Oxford Street, London W. 1. England. *New York Office:* c/o United Nations, New York, N.Y., U.S.A.

Leading Personalities: Head Office: Gen. Man.: J. A. Ouimet, Asst. Gen. Man.: E. L. Bushnell, Dir. of Progr.: Ch. Jennings, Asst. Dir. of Progr.: Marcel Ouimet, Dir. of Engineering: W. G. Richardson, Dir. of Press and Information: R. C. Fraser.

ENGLISH NETWORKS.

Medium Waves:

Call	kc/s	kW	City Pr.	Call	kc/s	kW	City Pr.
CBN	640	10	St. John's-N	CBO	910	1	Ottawa-O
CBG	1450	0.25	Gander-N	CBL	740	50	Toronto-O
CBT	1350	1	Gr. Falls-N	CJBC	860	50	Toronto-O
CBY	790	1	Corner B.-N	CBE	1550	10	Windsor-O
CBI	1570	1	Sydney-NS	CBW	990	50	Winnipeg-M
CBH	1330	0.1	Halifax-NS	CBK	540	50	Watrous-S
CBA	1070	50	Sackville-NB	CBX	1010	50	Edmont.-A
CBM	940	50	Montreal-Qu	CBU	690	10	Vanc.-B.C.

FM:

Call	mc/s	kW	City Pr.	Call	mc/s	kW	City Pr.
CBM	100.7	3.86	Montreal	CBNX	5970	0.3	St. Jn's. 1)
CBO	103.3	0.38	Ottawa	CBUX	6160	0.15	Vanc. 2)
CBL	99.1	5.58	Toronto	VED	7320	5	Edmonton 3)
CBU	105.7	1.40	Vancouver				

1) relay CBN. 2) relay CBU. 3) relay CBX.

CBN/CBNX: Address: Newfoundland Hotel, St. John's N. D. Pr.: 10.30-03.05. — **Verification** by QSL-card.

CBA: Address: United Service Building, 100 Sackville Street, Halifax N.S. D. Pr.: W: 11.00-04.05. Sun.: 12.45-04.05.

CBM: Address: Radio Canada Building, 1425 Dorchester 12.45-04.05.

CBM: Address: Radio Canada Building, 1425 Dorchester Street, Montreal, P.Q. D. Pr.: W: 11.00-05.10. Sun.: 13.00-05.00.

CBL: Address: 354 Jarvis Street, Toronto 5 O. D. Pr.: News: 18.00-12.00-15.00-16.00. W.: 12.00-05.10. Sun.: 13.00-05.10.

CJBC: Address: 354 Jarvis Street, Toronto 5 O. D. Pr.: W.: 12.00-05.00. Sun.: 13.45 05.00.

CBE: Address: Security Building, Windsor O. D. Pr.: W.: 12.45-05.30. Sun.: 13.00-05.30.

CBW: Address: P. O. Box 3004, Winnipeg. D. Pr.: 12.45-06.10.

CBK: Address as CBW. D. Pr.: 13.45-07.10.

CBX/VED: Address: Mc. Donald Hotel, Edmonton A. D. Pr.: 13.45-07.10.

CBU/CBUX: Address: 701 Hornby Street, Vancouver B.C. D. Pr.: W.: 15.45-08.00. Sun.: 15.55-08.00. News: 14.55(W), 15.30(W), 16.00, 19.00(S), 20.15(W), 23.00(S), 01.45(W), 03.00, 06.00, 07.57.

News from CBE, CBL, CBM, CBA: 22.00, 01.00. News from Mid-East Stations: 04.00. News from CJBC: 12.00,

13.10, 16.30, 17.57, 21.30, 22.30, 03.00, 04.00. News from the other stations.

FRENCH NETWORKS.

Medium Waves:

Call	kc/s	kW	City Pr.
CBF	690	50	Montreal
CBJ	1580	10	Chicoutimi
CBV	980	1	Quebec

FM:

Call	mc/s	kW	City Pr.
CBF	95.1	3.86	Montreal

Short Waves:

(Montreal 7.5 kW)			
CBFW	6090	CBFI	11720
CBFR	9520	CBFA	11760
CBFX	9610	CBLX	15090
CBFO	9630	CBFZ	15190
CBFY	11705		

PRIVATE STATIONS

Medium Waves: 5 kW and more. 94 Low-power stations not mentioned.

Call	kc/s	kW	City Pr.	Call	kc/s	kW	City Pr.
CJON	930	5	St. John's	CHVC	1600	5/1	Niagara Falls
CJCB	1270	5/1	Sydney	CFPL	980	5	London
CJFX	580	5	Antigon.	CHOK	1070	5/1	Sarnia
CHNS	960	5	Halifax	CKLW	800	50	Windsor
CJCH	920	5	Halifax	CJKL	560	5	Kirkland Lake
CFCY	630	5*	Charlot-tetown	CKGB	680	5	Timmins
CKCW	1220	10*	Moncton	CKSO	790	5*	Sudbury
CHSJ	1150	5*	S. John	CKRC	630	5*	Winnipeg
CFBC	930	5	S. John	CKY	580	5	Winnipeg
CFNB	550	5*	Frederict.	CKCK	620	5*	Regina
CHNC	610	5	N. Carlisle	CKRM	980	5*	Regina
CJBR	900	5*	Rimouski	CKBI	900	5	Pr. Albert
CHRC	800	5	Quebec	CHAB	800	5	Moose J.
CFCF	600	5	Montreal	CFQC	600	5*	Saskatn.
CKAC	730	10/5	Montreal	CJOC	1220	5*	Lethbrdg.
CJAD	800	5	Montreal	CJCA	930	5	Edmont.
CKOY	1310	5/1	Ottawa	CFRN	1260	5	Edmont.
CKWS	960	5	Kingston	CHFA	680	5	Edmont.
CFRB	1010	50	Toronto	CFAC	960	5*	Calgary
CKEY	580	5/1	Toronto	CFCN	1060	10*	Calgary
CKOC	1150	5	Hamilton	CJOR	600	5	Vancouv.
CHML	900	5*	Hamilton	CKWX	980	5	Vancouv.

* Night operation.

FM-Stations:

Call	mc/s	kW	City Pr.	Call	mc/s	kW	City Pr.
CJCB	94.9	0.25	Sydney	CKCR	96.7	0.35	Kitchnr.
CHNS	96.1	0.25	Halifax	CFPL	95.9	3.00	London
CHSJ	100.5	0.25	S. John	CKPC	94.7	0.25	Brantfd.
CJBR	101.5	1.00	Rimouski	CKOX	106.9	0.25	Woodst.
CHRC	98.1	0.60	Quebec	CHOK	97.5	0.25	Sarnia
CFCF	106.5	3.0	Montreal	CKLW	93.9	0.25	Windsor
CKVL	96.9	3.0	Verdun	CFCH	106.3	0.25	North Bay
CFRA	93.8	0.25	Ottawa	CJKL	93.7	0.25	Kirkland Lake
CKSF	104.3	0.6	Cornwall	CKGB	94.5	0.25	Timmins
CKWS	96.3	0.25	Kingston	CKPR	94.3	0.25	Fort William
CHEX	101.5	0.25	Peter-borough				
CFRB	99.9	0.25	Toronto	CJOB	103.1	0.25	Winnip.
CJRT	91.1	9.9	Toronto	CJCA	99.5	0.414	Edmnt.
CHML	94.1	0.25	Hamilton	CFRN	100.3	0.279	Edmnt.
CJSH	102.9	9.2	Hamilton	CKUA	98.1	0.352	Edmnt.
CKTB	97.7	0.25	S. Catharines				

Short Waves:

Call	kc/s	kW	City Pr.	Call	kc/s	kW	City Pr.
CJCX	6010	1	Sydney 1)	CKRX	11720	2	Winn. 5)
CHNX	6130	0.5	Halifax 2)	CFVP	6030	0.1	Calgr. 6)
CFCX	6005	0.075	Montr. 3)	CKFX	6080	0.001	Vanc. 7)
CFRX	6070	1	Toronto 4)	VED	7320		
CKRO	6150	2	Winn. 5)	VE9A	9540	0.2	Edmt. 8)

1) relay CJCB. 2) relay CHNS. 3) relay CFCF. 4) relay CFRB. 5) relay CKRC. 6) relay CFCN. 7) relay CKWX. 8) relay CJCA.

CJCB/CJCX: Address: Cape Breton Broadcasters Ltd., Radio Building, 318 Charlotte Street, Sydney N.S.

Leading Personality: Station Man: J. M. Nathanson. D. Pr.: 10.30(Sun. 12.00)-03.00.

Verification by QSL-card.

CHNS/CHNX: Address: Broadcasting House, Tobin St., Halifax. Station Man: Gerald J. Redmond. D. Pr.: 10.00-04.10. **Verification by QSL-card.**

CFCF/CFCX: Address: Canadian Marconi Co., 4824 Cote des Neiges Road, Montreal, Qu. **Leading Personalities:** Broadcast. Man.: V. George. Station Man.: G. A. Hammond. Progr. Man.: R. Thompson. Chief Eng.: A. Clapp. D. Pr.: 10.00-05.30. **Verification by QSL-card.**
CFRB/CFRX: Address: Rogers Radio Broadcasting Co., 37 Bloor Street West, Toronto. **Leading Personality:** Station Man.: Lloyd Moore. D. Pr.: 11.00-06.05. *News:* 13.00, 14.00, 16.50, 17.30, 21.00, 22.50, 23.30, 03.50. **Verification by QSL-card.**

CKRC/CKRO/CKRX: Address: Transcanada Communications Ltd. Free Press Building, 300 Carlton Street, Winnipeg, M. D. Pr.: 13.00-08.00.

CFCN/CFVP: Address: The Voice of the Prairies, Ltd., Toronto General Trust Bldg. Calgary, Al.

Leading Personalities: Press & Gen. Man.: H. Gordon Love. Chief Eng.: R. W. Lamb. D. Pr.: 13.00-07.00. *News:* 15.00, 19.30, 05.30. **Verification by QSL-card.**

CKWX/CKFX: Address: Western Broadcasting Co, Ltd., 543 Seymour Street, Vancouver BC. **Leading Personality:** Vice President & Gen. Man.: F. H. Elpicke. D. Pr.: 14.30-08.00. **Verification by letter.**

CJCA/VED/VE9AI: Address: The Edmonton Broadc. Co. Ltd., Birks Bldg., Edmonton. **Leading Personality:** G. Gaetz, Mgr.

UNITED STATES OF AMERICA

VOICE OF AMERICA (Government)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the U.S. Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.

VOA radio relay installations are located at Honolulu, Manila, Colombo, Okinawa, Munich, Tangier, Salonika, and aboard VOA's floating transmitter - the U.S. Coast Guard cutter *Courier*. Relay facilities are also leased from the BBC.

Programs are written, produced and broadcast from studios in New York City, Washington, D.C., and Munich, Germany.

Address: The Voice of America, Box 407, Radio City Station, New York, N.Y., U.S.A.

Leading Personalities: Director U.S. Information Agency Theodore C. Streibert; Assistant Director for Broadcasting Leonard F. Erikson; Controller Frank L. Seymour; Program Manager John M. Vebber; Chief Engineer Edgar T. Martin; Facilities Manager Harold Wright; Director Evaluation Staff, A Leo Lowenthal.

Stations

KCBR-1 (200 kW), KCBR-2, KCBR-3 (50 kW), KCBR-4, KCBR-5 (100 kW), Columbia Broadcasting System, Inc., Delano, California.

KRCA-1 (200 kW), KRCA-2, KRCA-3 (50 kW), KRCA-4, KRCA-5 (100 kW), National Broadcasting Co., Inc. Dixon, California.

WRCA 1/6 (50 kW) National Broadcasting Co. Inc. Bound Brook, New Jersey.

WDSI-1, WDSI-2, WDSI-3 (50 kW), Columbia Broadcasting System, Inc., Brentwood, New York.

WDSI-5, WDSI-6 (50 kW). Columbia Broadcasting System, Inc. Wayne, New Jersey.

WGEO-1 (100 kW), WGEO-2 (50 kW), WGEO-3 (25 kW). General Electric Company, 1 River Road, Schenectady, New York.

WLWO-3, WLWO-4, WLWO-5, WLWO-6, WLWO-7, WLWO-8 (75/200 kW). The Crosley Corporation, Bethany, Ohio.

Stations	kc/s	m	Stations	kc/s	m
KRCA	6020	49.83	WGEO	11900	25.21
WRCA	6020	49.83	KCBR	15130	19.83
KCBR	6040	49.67	WRCA	15130	19.83
WLWO	6040	49.67	WLWO	15165	19.78
KRCA	6060	49.50	WLWO	15200	19.74
WDSI	6060	49.50	KRCA	15210	19.72
WRCA	6100	49.18	WRCA	15210	19.72
WDSI	6120	49.02	WDSI	15210	19.72
WLWO	6155	48.74	WDSI	15220	19.71
WDSI	6170	48.62	WDSI	15230	19.70
KCBR	6185	48.50	WRCA	15230	19.70
WRCA	6190	48.47	KRCA	15240	19.69
KRCA	9515	31.53	KCBR	15250	19.67
WLWO	9520	31.51	WLWO	15250	19.67
KCBR	9530	31.48	KRCA	15270	19.65
WDSI	9530	31.48	WDSI	15270	19.65
WGEO	9530	31.48	WRCA	15270	19.65
WLWO	9545	31.43	WRCA	15285	19.63
WRCA	9550	31.41	KCBR	15315	19.59
KCBR	9570	31.35	WGEO	15330	19.57
WDSI	9590	31.28	WLWO	15330	19.57
KRCA	9590	31.28	KCBR	15340	19.56
KCBR	9600	31.25	WGEO	17760	16.89
WGEO	9615	31.20	KCBR	17770	16.88
WRCA	9615	31.20	WDSI	17770	16.88
WDSI	9650	31.09	WRCA	17780	16.87
KRCA	9670	31.02	KCBR	17780	16.85
WLWO	9685	30.98	WLWO	17795	16.80
KCBR	9700	30.93	KRCA	17800	16.86
WLWO	9700	30.93	KRCA	17830	16.85
WRCA	9700	30.93	WLWO	17830	16.83
WLWO	11710	25.62	WDSI	17830	16.83
KCBR	11770	25.49	WLWO	17840	16.83
WRCA	11770	25.49	WRCA	17845	16.82
WRCA	11775	25.48	KCBR	17850	16.81
WDSI	11790	25.45	KRCA	21460	13.91
WRCA	11790	25.45	WRCA	21500	13.91
KRCA	11790	25.45	WLWO	21520	13.93
WLWO	11790	25.45	WDSI	21570	13.91
KCBR	11810	25.40	WGEO	21590	13.94
WDSI	11830	25.36	WRCA	21610	13.80
WGEO	11830	25.36	WLWO	21650	13.88
KRCA	11870	25.27	WRCA	21730	13.86
KRCA	11890	25.23	KCBR	21740	13.87
WRCA	11890	25.23			

Relay stations: For frequencies of the relay stations, refer to the individual countries: Germany, Greece, Dodecanese Islands, Great Britain, Tangier, Ceylon, Hawaii, Okinawa, Philippines.

Announcement: Each program ends with the words: „This program has come to you from the United States of America“, in the language of the program:

Interval-Signal: The tune „Yankee Doodle“.

Verification by QSL-card.

	TO EUROPE, NEAR- AND MIDDLE EAST	USA	RELAY STATIONS
			METRE BANDS
ALBANIAN	04.30-04.45	—	25, 31, 41, 49
	12.00-12.15	—	19, 25, 31
	18.15-18.30	19, 25, 31	25, 31, 41, 49
	18.45-19.00	—	379
	20.15-20.30	19, 25, 31	25, 31, 41, 49
	21.15-21.30	—	251
	22.30-22.45	—	31, 41, 49, 238
ARABIC	18.30-19.30	19, 25, 31	31, 41, 49, 238
	19.30-20.30	—	41, 49, 238
ARMENIAN	00.00-00.30	—	41, 49, 238
	01.45-02.15	—	31, 41, 49
	08.30-09.00	—	19, 25
	10.30-11.00	—	19, 25
	15.00-15.30	13, 16, 19	19, 25, 31, 49
	20.30-21.00	—	41, 49, 238

U. S. A.

		USA	RELAY STATIONS
		METRE BANDS	
AUSTRIAN	17.15-17.30 18.45-19.00	13, 16, 19 19, 25, 31	240, 388 240, 388, 397, 417, 531
BULGARIAN	00.45-01.15 11.00-11.30 16.15-16.30 17.00-17.15 18.00-18.30 19.30-20.00 21.15-21.30 22.00-22.30	— — — 13, 16, 19 — 19, 25, 31 — —	31, 41, 49 19, 25 41, 49, 75 19, 25, 31, 379 41, 49, 379 25, 31, 41, 49, 379 49, 75 31, 41, 49, 238 31, 41, 49
CZECH/ SLOVAK	04.45-05.00 08.00-08.15 11.30-11.45 17.30-18.00	— — — 19, 25	19, 25 25, 31, 41, 49, 75, 251, 1734
ENGLISH	20.00-20.30 21.45-22.00 23.45-24.00 16.00-16.30 16.15-16.45	19, 25, 31 19, 25, 31 — — 13, 16, 19	25, 31, 41, 49, 75 31, 41, 49, 75 31, 41, 49, 238 31, 238 19, 25, 31, 41, 49, 224, 464
	18.00-18.30 19.00-19.30 20.30-21.30	31, 41, 49, 75 — 41, 49, 238	31, 41
	00.15-00.30 03.45-04.00 09.00-09.15 13.00-13.15 17.30-17.45 18.30-18.45 19.45-20.00 21.15-21.30	— — — — 13, 16, 19 — 19, 25, 31 —	31, 41, 49 31, 41, 49 19, 25 16, 19, 25, 31 25, 31, 41, 49 41, 49, 75, 251 31, 41, 49 25, 31
	17.30-18.00 00.30-00.45 02.15-02.45 08.15-08.30 09.45-10.00 11.45-12.00 16.45-17.00 18.15-18.30 19.45-20.00 21.00-21.15 21.45-22.00	13, 16, 19 — — — — — 13, 16, 19 — 19, 25, 31 — —	RDF 41, 49, 238 31, 41, 49 19, 25 19, 25 19, 25 41, 49, 238 25, 31, 41 41, 49, 238 41, 49, 238
GERMAN	17.15-17.30	13, 16, 19	49, 251, 303, 439, 1734
GREEK	17.45-18.00 20.00-20.15 22.00-22.15 17.15-17.30	13, 16, 19 19, 25, 31 19, 25, 31 19, 25	HR/BR/SR/RB(* 31, 41, 49, 407 41 25, 31, 379, 412
	20.30-20.45 14.00-14.15 18.45-19.00 19.00-19.30	19, 25, 31 19, 25, 31 — 19, 25, 31	31, 41, 49, 379, 412 19, 25, 31, 41, 49 31, 41, 49, 75, 251 31, 41, 49, 75, 379, 1734
	20.45-21.15 21.30-21.45 22.15-22.30 23.15-23.45	19, 25, 31 — — —	25, 31, 41, 49, 379 31, 41, 49, 251 31, 41, 49 31, 41, 49, 238
	15.30-15.45 00.30-00.45 04.00-04.15 09.30-09.45 13.15-13.30 17.45-18.00 19.30-19.45 22.45-23.00	— — — — — 16, 19, 25 19, 25, 31 —	RAI 31, 41, 49 31, 41, 49 19, 25 16, 19, 25, 31 25, 31, 41, 49 25, 31, 41, 49 251
ITALIAN	00.00-00.15	—	31, 41, 49
LATVIAN	04.15-04.30 09.15-09.30 12.15-12.30 14.45-15.00 16.00-16.15 16.30-16.45 18.15-18.30 21.00-21.15	— — — — 13, 16, 19 — — 19, 25, 31	31, 41, 49 31, 41, 49 19, 25 16, 19, 25, 31 19, 25, 31, 49, 251 41, 49 25, 31, 251 31, 41, 49, 251
LITHUANIAN	16.00-16.15 16.30-16.45 18.15-18.30 21.00-21.15	— — — 19, 25, 31	31 25, 31, 41, 238 41, 238
	16.00-16.30 16.30-17.30 17.30-18.00	— 13, 16, 19 —	— 25, 31, 41, 238 41, 238

		USA	RELAY STATIONS
		METRE BANDS	
POLISH	05.30-06.00 07.30-08.00 16.15-16.45 19.30-20.00 20.30-21.00 21.45-22.15 22.15-22.45 23.00-23.30 07.00-07.30 16.45-17.00 20.00-20.30 22.45-23.15	— — 13, 16, 19 — 19, 25, 31 — — — — 13, 16, 19 19, 25, 31 —	31, 41, 49 19, 25 25, 31, 41, 49, 251 31, 41, 49, 251, 1734 25, 31, 41, 49 1734 251 19, 25 25, 31, 41, 49 25, 31, 41, 49, 379 31, 41, 49, 238 31, 41, 49, 238
RUMANIAN	01.15-01.45 03.15-03.45 06.00-06.30 12.30-13.00 13.30-14.00 14.15-14.45 16.45-17.15 18.00-18.30 20.30-21.00 21.15-21.45 21.45-22.15 23.00-23.30	— — — — — 13, 16, 19 — 19, 25, 31 — 19, 25, 31 — —	31, 41, 49 31, 41, 49 25, 31, 41, 49 19, 25, 31 16, 19, 25, 31 16, 19, 25, 31 25, 31, 41, 49 19, 25, 31, 41, 49 49, 1734 25, 31, 41, 49, 238 31, 41, 49, 251 1734
RUSSIAN	05.00-05.15 17.30-17.45 19.00-19.30 21.00-21.30 17.00-17.15 18.30-18.45 20.30-21.00 05.15-05.30 18.00-18.15 00.45-01.15 06.30-07.00 15.30-16.00 18.30-19.00 22.30-23.00	— 13, 16, 19 19, 25, 31 — 13, 16, 19 19, 25 19, 25, 31 — 19, 25, 31 — — 13, 16, 19 19, 25, 31 —	31, 41, 49 25, 31, 41, 49, 379 31, 41, 49, 251 1734 25, 31, 49, 306 25, 31, 379 31, 41, 49, 251 31, 41, 49 25, 41, 49, 238 41, 49, 238 19, 25 19, 25, 31, 41, 49, 251 25, 31, 41, 49 1734
SERBO-CROAT			
SLOVENE			
SPANISH			
TURKISH			
UKRAINIAN			

(* HR=Hessischer Rundfunk. BR=Bayerischer Rundfunk. SR=Süddeutscher Rundfunk. RB=RIAS Berlin.

TO INDIA AND PAKISTAN		USA	RELAY STATIONS
		METRE BANDS	
BENGALI	13.15-13.45 (Mon. Only)	—	25, 31
ENGLISH	15.00-15.30	13, 16, 19	16, 19, 25, 31
HINDI	13.30-14.00 (Excp. Mon.)	—	25, 31
TAMIL	14.00-14.30 (Wed. Only)	—	25, 31
URDU	14.00-14.30 (Excp. Wed.)	—	25, 31

TO LATIN-AMERICA		USA	USA
		EAST COAST	WEST COAST
ENGLISH	00.30-01.00	19, 25, 31, 49	16, 19, 25

TO FAR EAST		USA	RELAY STATIONS
		METRE BANDS	
AMOY	08.30-09.00 11.30-12.00 11.30-12.00	31, 49 — —	— 19, 25, 254 25, 31, 49, 254, 263, 326
BURMESE	14.00-14.30 11.00-11.30 12.00-12.30 14.30-15.00	— 31, 49 — —	— — 19, 25, 31 19, 25, 31, 263
CANTONESE	10.00-10.30 11.00-11.30	31, 49 —	— 25, 31, 49, 254, 263

TO FAR EAST		USA	RELAY STATIONS
		METRE BANDS	
ENGLISH	13.00-13.30	—	31, 41, 49, 254, 263, 326
	14.30-15.00	—	326
	23.00-23.30	13, 16, 19	25, 31, 49
	13.30-14.00	31, 49	19, 25, 31, 49, 254, 263, 326
INDONESIAN	11.30-12.00	31, 49	19, 25, 31
JAPANESE	15.00-15.30	—	19, 25, 31
	07.30-08.00	31, 49	—
KOREAN	09.30-10.00	—	19, 25, 49
	23.30-00.00	13, 16, 19	—
	10.30-11.00	31, 49	19, 25, 49, 254
	14.00-14.15	31, 49	31, 41, 49, 254
MANDARIN	22.00-22.30	13, 16, 19	25, 31, 49
	08.00-08.30	31, 49	—
	10.00-10.30	—	25, 31, 49, 254, 263
	12.00-13.00	31, 49	31, 41, 49, 254, 263, 326
RUSSIAN	15.00-15.30	31, 49	31, 41, 49, 254, 263, 326
	22.30-23.00	13, 16, 19	25, 31, 49
	23.30-24.00	—	25, 31, 49
	00.00-00.30	13, 16, 19	16, 19, 25
THAI	09.00-09.30	31, 49	16, 19, 25, 31, 41
	14.15-14.45	31, 49	25, 31, 41, 49, 254
	13.00-13.30	31, 49	19, 25, 31, 263
	14.00-14.30	—	19, 25
VIETNAMESE	09.30-10.00	31, 49	—
	12.30-13.00	—	19, 25, 31
	14.00-14.30	—	19, 25, 263

Programs for which no USA metre bands are shown are repeats of earlier broadcasts or overseas originated programs.

RADIO FREE ASIA

The Committee for Free Asia does not longer operate its own transmitters. Instead it is helping improve the radio programs of other stations through technical assistance.

ARMED FORCES RADIO SERVICE

The Armed Forces Radio Service operates under the Office of Armed Forces Information and Education, Department of Defense. AFRS presents regular shortwave programs from both Los Angeles and New York City using the transmitters of the Voice of America. The Los Angeles broadcast schedule features a 15-minute newscast every hour on the hour and play-by-play sports events in season from 01.00 to 14.15 daily. The mission of AFRS is to keep United States service men and women stationed outside the States the best informed service personnel in the world on current events.

Address: Officer-in-charge, Armed Forces Press and Radio Service, 641 Washington Street, New York 14, N.Y. — Officer in Charge, Armed Forces Radio Service, 1016 North Mc-Cadden Place, Los Angeles 38, California.

EUROPEAN SERVICE (from New York):

18.00-22.45 9670 kc/s 31.02 m WGEO-3
11900 — 25.21 — WGEO-2
15210 — 19.71 — WRCA-1
18.00-22.00 17770 — 16.88 — WDSI-5

News: 18.30-18.45, 19.30-19.45, 22.30-22.45. Five minutes of news on the hour (19.00, 20.00, 21.00) Mo. through Fri. 21.00 news at half time GAME DAYS as close to 21.00 as possible.

Conference Period: 18.05-18.15. **Schedule reading:** 18.15 1st and 15th of each month. **Verification** by QSL-card.

PACIFIC SERVICE (from Los Angeles):

Leading Personality: Officer-in-charge, Commander: U. S. N. E. F. Hutchins.

To East Asia (Japan/Korea):

01.00-05.45 11770 kc/s 25.49 m (KCBR3)
15315 — 19.60 — (KCBR2)
06.00-14.15 6040 — 49.67 — (KCBR3)
9700 — 30.93 — (KCBR2)

To Philippines/Marianas:

01.30-05.00 17770 kc/s 16.88 m (KCBR-1)

To Alaska/Aleutians:

22.00-01.00*) 15130 kc/s 19.83 m (KCBR5)

01.00-04.15 15130 — 19.83 — (KCBR5)

04.30-11.45 9530 — 31.48 — (KCBR5)

*) Sat. only

To Carribean:

01.00-06.00 9570 kc/s 31.35 m (KCBR4)

12.00-14.15 9530 — 31.48 — (KCBR5)

Slight adjustments seasonally in frequencies, but comparable coverage same m.b. as indicated.

News: hourly from 01.00-14.00.

Conference Period: Daily — 01.30 GMT and 06.15 GMT contains important information on upcoming show and schedules changes.

Schedule Reading: There will be a schedule reading of the AFRS Shortwave Master Schedule, twice each month — on the 1st and 15th at 18.00, on all transmitters. This reading brings you the latest changes in current programs on AFRS, N.Y.

Announcement: "This is the United States Armed Forces Radio Service, The Voice of Information and Education."

Verification by QSL-card. Return postage not required. Program Schedule available on request.

WORLD WIDE BROADCASTING SYSTEM

(Commercial)

Address: 1 E 57th Street, New York, N.Y. **Cable:** Shortwave.

Leading Personality: President Walter S. Lemmon.

Stations: R. Boston "The Voice of Freedom". 50/80/100kW.

WRUL1 9530	WRUL3 11730	WRUL5 15280
WRUL2 9585	WRUL4 11740	WRUL5 15310
		WRUL5 17750

EUROPEAN SERVICE: 19.55-21.45 on 11740, 15280, 15350 kc/s. W. 21.30-21.45: Business Bulletin.

Mo.: 20.00-20.30 Swedish Progr., 20.30-21.30 Music.

Tues.: 20.00-20.30 Norweg. Progr., 20.30-21.30 Shows.

Wedn.: 20.00 Hollywood Chit-Chat, 20.15-20.45 Hour of Decision, 20.45 Christian Science Monitor News, 21.00-21.30 Dutch Progr.

Thurs.: 20.00-21.30 Music. **Fri.:** 20.00-21.30 Music.

Sun.: 20.00 Music, 20.15-20.45 Talk, 20.45-21.15 English Progr., 21.15-21.45 Columbia Church.

LATIN AMERICAN SERVICE: 23.00-01.00 on 9585, 11730, 15310 kc/s. D.: 23.15-23.30 Business Bulletins

Mo. Fri.: 00.15-01.00 Progr. in Spanish.

Mo.: 23.00-23.15 News (Engl.), 23.30-24.00 Records,

00.00-00.15 News.

Tues.: 23.00-23.15 English by Radio (beginners), 23.30-24.00 Records, 00.00-00.15 News.

Wedn.: 23.00-23.15 News (Engl.), 23.30 Christian Science Monitor News, 23.45 Hollywood Chit-Chat, 00.00-00.15 News.

Thurs.: 23.00 English by radio (beginners), 23.30-24.00 Show, 00.00-00.15 News, 00.45 English by radio (begin.).

Fri.: 23.00-23.15 News (Engl.), 23.30-24.00 Hawaii calls, 00.00-00.15 News.

Sat.: 23.00-23.30 UNO this Week, 23.30-00.30 Music, 00.30-01.00 Dutch Progr. (W.I.).

Sun.: 23.00-23.30 Tabernacle Choir, 23.30 Light for Living, 23.45-00.15 Talk.

Announcement: "This is the Voice of Freedom, Station WRUL in Boston, Massachusetts, U.S.A."

Interval-Signal: New World Symphony. **Verification** by QSL-card.

PRIVATE STATIONS (commercial)

Abbreviations: C=California, Te=Texas, N.Y.=New York, Ill=Illinois, M=Maryland, Ma=Massachusetts, PR=Puerto Rico, T=Tennessee, A=Alabama, K=Kansas, V=Virginia, O=Ohio, Fl=Florida, L=Louisiana, W=Washington, Wy=Wyo, Ok=Oklahoma, Ge=Georgian, Or=Oregon, Mi=Michigan, Ke=Kentucky, Co=Colorado, N.C.=New Carolina, I=Iowa Ne=Nebraska,.,

U. S. A. - United Nations

N.M. = New Mexico, Wi = Wisconsin, Con = Connecticut, Ar = Arkansas, Mis = Missouri, Id = Idaho, S.D. = South Dakota, Min = Minneapolis, Corp. Chr. = Corpus Christi.

Medium Wave Stations, 10 kW and more.

kc/s	kW	call	town/prov.	kc/s	kW	call	town/prov.
640	50	KFI	L. Angeles C.	1010	10	WEAS	Decatur Ge.
650	50	WSM	Nashville T.	1010	25	KRVN	Lexington Ne.
660	50	WNBC	New York N.Y.	1010	50	WINS	N. York N.Y.
670	50	WMAQ	Chicago Ill.	1020	50	KDKA	Pittsburgh
680	50	KNBC	S. Francisco C.	1030	50	WBZ	Boston Ma.
680	10	WCBM	Baltimore M.	1030	10	KOB	Albuquerque N. Me.
680	50	WNAC	Boston-Lawrence Ma.	1030	50	KWBU	Corp. Chr. Te.
680	50	WPTF	Raleigh C.	1040	50	WHO	Des Moines I.
680	10	WMPB	Memphis T.	1050	50	WMGM	N. York N.Y.
680	50	KABC	S. Antonio Te.	1060	50	WNOE	N. Orleans L.
690	50	WVOK	Birmingham A.	1060	50	KYW	Philadelphia
690	10	KGGF	Coffeyville K.	1070	10	WAPI	Birmingham A.
690	10	KEPO	El Paso Te.	1070	50	KNX	L. Angeles C.
690	10	WCYB	Bristol V.	1070	50	WIBC	Indiapolis
700	50	WLW	Cincinnati O.	1070	10	KFBI	Wichita K.
710	10	KMPC	L. Angeles C.	1070	50	WDIA	Memphis T.
710	50	WGBS	Miami Fl.	1070	10	WKOW	Madison Wi.
710	10	KTBS	Shreveport L.	1080	50	WTIC	Hartford Con.
710	50	WOR	N. York N.Y.	1080	10	KWJJ	Portland Or.
710	10	KGNC	Amarillo Te.	1080	50	KRLD	Dallas Te.
710	50	KIRO	Seattle W.	1090	50	KTHS	H. Springs Ar.
710	10	KFBC	Cheyenne Wy	1090	50	WBAL	Baltimore M.
720	50	WGN	Chicago Ill.	1090	50	KING	Seattle W.
740	10	KBIG	Avalon C.	1100	50	WTAM	Cleveland O.
740	50	KCBS	S. Francisco C.	1110	10	KXLA	Pasadena C.
740	50	KRMG	Tulsa Ok.	1110	50	KFAB	Omaha N.
740	50	KTRH	Houston Te.	1110	50	WBT	Charlotte C.
750	50	WSB	Atlanta Ge.	1120	50	KMOX	St. Louis Mis.
750	10	KXL	Portland Or.	1130	50	KWKH	Shreveport L.
760	50	WJR	Detroit Mi.	1130	10	WCAR	Detroit Mi.
770	50	KOB	Albuquerque N. Me.	1130	50	WDGY	Minneapolis
770	50	WABC	N. York N.Y.	1140	10	WNEW	N. York N.Y.
780	50	WBBM	Chicago Ill.	1140	10	WMIE	Miami Fl.
810	50	KGO	S. Francisco C.	1140	10	KGEM	Boise Id.
810	50	WGY	Schenect. N.Y.	1140	50	KSOO	Sioux F., S.D.
820	50	WFAA	Dallas Te.	1140	50	WRVA	Richmond V.
820	50	WBAP	(also 570 kc/s) Ft. Worth Te.	1160	50	WJJD	Chicago Ill.
830	50	WCCO	(also 570 kc/s) Minneapolis	1160	50	KSL	Salt Lake City
840	50	WHAS	Louisville Ke.	1170	50	KVOO	Tulsa Ok.
850	10	WILD	Birmingham A.	1170	50	WWVA	Wheeling W.V.
850	50	KOA	Denver Co.	1180	50	WHAM	Rochest. N.Y.
850	50	WHDH	Boston Ms.	1190	50	WOWO	Ft. Wayne
850	10	WKKW	Albany N.Y.	1190	50	KEX	Portland Or.
850	10	WNAO	Raleigh N.C.	1200	50	WOAI	S. Antonio Te.
860	10	KOAM	Pittsburg K.	1210	50	WCAU	Philadelphia
870	50	WWL	N. Orleans L.	1220	50	WGAR	Cleveland O.
880	50	WCBS	N. York N.Y.	1500	50	WTOP	Washingt D.C.
890	50	WENR	Chicago Ill.	1500	10	WJBK	Detroit Mi.
890	50	WLS	Chicago Ill.	1500	50	KSTP	St. Paul Min.
940	50	KFRE	Fresno C.	1510	50	WLAC	Nashville Te.
940	50	WINZ	Hollywood Fl.	1510	50	KGA	Spekane W.
940	10	WMAZ	Macon Ge.	1520	50	WKBW	Buffalo N.Y.
940	10	KIOA	Des Moines I.	1520	50	KOMA	Okl. City Ok.
990	10	WHOO	Orlando Fl.	1530	50	KFBK	Sacramento C.
990	10	WIBG	Philadelphia	1530	50	WCKY	Cincinnati O.
990	10	WNOX	Knoxville T.	1540	10	KSOX	Harlingen Te.
990	10	KFDX	Wich. Falls Te	1540	10	KPOI	L. Angeles C.
1000	50	WCFL	Chicago Ill.	1540	50	KXEL	Columbus Mis
1000	50	KOMO	Seattle W.	1540	50	WPTR	Waterloo I.
				1550	10	WBSC	Albany N.Y.
				1560	10	WQXR	Bennetsv. S.C.
							N. York N.Y.

FM-Stations 10 kW and more.

Alabama:		KSBR	San Bruno	100.5	50
WAFM Birmingham	99.5	KCBS	S. Francisco	103.7	10
WSGN Birmingham	93.7	KGO	S. Francisco	106.1	10
WABB Mobile	102.1	KRON	S. Francisco	96.5	10
Arizona:		KDFC	Sausalito	102.1	10
KTYL Near Mesa	104.7	Colorado:			
KFCA Phoenix	88.5	KOA	Denver	95.7	10
California:		Florida:			
KPFM Berkeley	94.1	WJHP	Jacksonville	96.9	10
KRFM Fresno	93.7	WIOD	Miami	97.3	10
KFWB Hollywood	94.7	WKAT	Miami Beach	93.1	50
KNX Hollywood	93.1	WDBO	Orlando	92.3	10
KLON Long Beach	88.1	WHOO	Orlando	96.5	10
KCBH L. Angeles	98.7	WDAE	Tampa	100.7	10
KNX L. Angeles	93.1	WFLA	Tampa	93.3	10

Georgia:

WATL Atlanta	97.5	10	WAIR Winston-Salem	93.1	10
WGST Atlanta	94.1	10	WSJS Winston-Salem	104.1	10
WSB Atlanta	98.5	10	WMIT Yancey County	106.9	46
WRBL Columbus	93.3	10	Ohio:		
Illinois:			WGAR Cleveland	104.1	10
WFMT Chicago	105.9	10	WCOL Columbus	92.3	10
WTAD Quincy	99.5	10	WVKO Columbus	94.7	10
WHBF Rock Island	98.9	10	WFMJ Youngstown	105.1	10
WIUC Urbana	89.9	50	Oregon:		
Indiana:			KEX Portland	92.3	10
WFIU Bloomington	103.7	10	KGW Portland	100.3	10
WCSI Columbus	93.7	10	KOIN Portland	101.1	10
WTRC Elkhart	100.7	10	KPOJ Portland	98.7	10
WOWO Ft. Wayne	96.1	10	South Carolina:		
Iowa:			WCAC Anderson	101.1	10
KCRK Cedar Rapids	96.9	10	WCSC Charleston	96.9	10
WOC Davenport	103.7	10	WTIG Clemson	97.1	10
KRNT Des Moines	104.5	10	Tennessee:		
WHO Des Moines	100.3	50	WDOD Chattanooga	96.5	10
KDTH Dubuque	100.5	10	WAPQ Chattanooga	99.1	10
Kentucky:			WTJS Jackson	100.7	10
WVJS Owensboro	96.1	10	Texas:		
WKYB Paducah	93.3	10	KRLD Dallas	92.5	10
Louisiana:			WRR Dallas	101.1	10
WRCM New Orleans	97.1	10	WBAP Fort Worth	100.5	10
Michigan:			KPRC Houston	102.9	10
WUOM Ann Arbor	91.7	10	KTRH Houston	101.1	10
WBCM Bay City	96.1	10	KXYZ Houston	96.5	10
WJBK Detroit	93.1	10	KCMC Texarkana	98.1	10
WJEF Grand Rapids	93.7	50	Utah:		
Minnesota:			KUTF Salt Lake City	97.1	10
WEBC Duluth	92.3	10	Virginia:		
KYSM Mankato	103.5	10	WBTM Danville	97.9	10
KFAM St. Cloud	104.7	10	WGH Newport News	96.5	10
Missouri:			WTAR Norfolk	97.3	10
WMBH Joplin	96.1	10	WCOD Richmond	98.1	10
CKMO Kansas City	94.9	10	WLEE Richmond	102.9	10
New Jersey:			WRVB Richmond	94.5	10
WAAT Newark	94.7	13.5	WDBJ Roanoke	94.9	10
New York:			West Virginia:		
WBEN Buffalo	106.5	10	WHTN Huntington	100.5	10
WBNY Buffalo	92.9	10	Wisconsin:		
WHCU Ithaca	97.3	10	WHKW Chilton	89.3	10
North Carolina:			WHWC Nr. Colfax	88.3	10
WSOC Charlotte	103.5	10	WHAD Delafield	90.7	10
WDNC Durham	105.1	10	WEAU Eau Claire	94.1	10
WEQR Goldsboro	93.3	10	WHHI Highland	91.3	10
WMFR High Point	99.5	10	WHSA Highland TWP	89.9	10
WNAO Raleigh	96.1	10	WIBA Madison	101.5	10
WRAL Raleigh	101.5	10	WHRM Nr. Wausau	91.9	10
WFMA Rocky Mount	100.7	10			

UNITED NATIONS

Address: Radio Division, United Nations, New York, U.S.A. **Cable:** Omnipress, New York.

Leading Personalities: Director of United Nations Radio Division: Peter Aylen. Chief of Production: W. Gibson Parker. Chief of Central Radio Services: Mr. Hugh Williams. Regional Chiefs: Gerald Kean, Mike Peng, Eugenio Soler-Alonso, H. Van Stuw, N. M. Rashed, Paul Bouchon. Chief Radio News Editor: G. L. Obhrai. Technical Service: A. E. Barrett. Television: Emery Kelen.

SCHEDULE OF SHORT-WAVE BROADCASTS:

European and Middle Eastern Programme I (Mo.-Sat.). On WRCA 11770 kc/s, WDSI 15210 kc/s.

18.00 English News	19.15 Turkish News
18.10 Serbo-Croat Disp.	19.25 Danish Disp.
18.15 Hebrew Disp.	19.30 Serbo-Croat News
18.20 French News	19.40 Serbo-Croat Disp.
18.30 Arabic Progr.	19.50 Dutch News
19.00 English Disp.	

European Programme (Mo.-Sat.): 11720 kc/s, 17.00-17.25 Russian Programme.

Latin American Programme I (Mo.-Sat.):

On WDSI 15270 kc/s, WGEO 9530 kc/s, WRCA 11890 kc/s, WLWO 11710 kc/s (from 23.45).

23.00-24.00 Spanish News and Programmes.

On WDSI 9650 kc/s, WGEO 11830: 00.00 French News, 00.07 English News.

On WDSI 9650 kc/s and 11790 kc/s: 00.15-00.30 Portuguese Programme.

Latin American Programme II (Mo.-Sat.):

On WLWO 11710 kc/s and 9700 kc/s:

02.00-03.00 Spanish News and Programme.

European and Middle Eastern Programme II (Tues.-Sun.):

On Tangier 2 9700 kc/s, Tangier 10 7200 kc/s.

04.15 Persian News 05.05 Correspondent's Disp.

04.30 Arabic News (Beirut) 05.10 Amharic News

04.35 Hebrew News 05.20 Correspondent's Disp.

04.40 Hebrew Disp. 05.30 Arabic Disp. (Cyprus)

04.45 Pushtu News 05.40 Arabic News (Cyprus)

04.55 Duri News 05.45 Greek News

05.00 Arabic News 05.53 Correspondent's Disp.

(Damascus)

Trans-Pacific Programme (Tues.-Sun.):

On KRCA 11870 kc/s, 9515 kc/s, 6060 kc/s.

05.00 Tagalog News 06.00 English Programme

05.10 Indonesian News (Sun. only - Eng News)

05.20 Thai News 06.15 English News

05.30 Chinese Programme (Sun. only - French Prog.)

Repeat of Above Programme (Tues.-Sun.):

On Manila 11890 kc/s, 10.00-11.29.

Southeast Asia Programme I (Tues.-Sun.): On VLC 4 15320 kc/s.

03.45 English News (India) - 03.50 Urdu News

Southeast Asia Programme II (Sun. only):

On GRZ 15260 kc/s, GVP 17700 kc/s.

09.30 Urdu Programme - 09.45 English Programme

Korean Programme (D.):

On KRCA 11870 kc/s, 9515 kc/s, 6060 kc/s: 06.30-06.45 Korean News.

Repeat of Korean Programme:

On Manila 2 15245 kc/s: 10.15-10.30

Broadcasts of Meetings to Latin America (Mon.-Sat. when held): On WRCA 17845 kc/s,

15.30-18.00 and 20.00-23.00 Spanish speeches and interpretations.

Broadc. of Meetings Europe, Middle East (Mon.-Sat. when held): On WRCA 15285 kc/s: 15.30-17.45 (English and French).

On WRCA 11770 kc/s, WDSI 15210 kc/s, WDSI 9650 (21.00-23.45 only).

20.00-23.45 (English and French).

Special Radio Services (Mo.-Sat.) Addressed Programme Transmission Service to Belgium, Denmark, France, Iceland, Norway and South Africa.

Announcement: "This is the United Nations calling the peoples of the World". This introductory phrase is used in all the official UN programs in all of the languages concerned.

Interval-Signal:



Message to Listeners: The Radio Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. All correspondents will receive a United Nations Radio verification card, new correspondents being sent a programme schedule and some general information about the United Nations and the specialized Agencies. - Correspondence, requests for copies of the schedule of UN broadcasts which can be heard in the United States, should be addressed to: *United Nations, N.Y., U.S.A.* or to the Director of the nearest UN Information Centre. These centres are located in Belgrade, Buenos Aires, Cairo, Copenhagen, Geneva, Karachi, London, Mexico City, Monrovia, Moscow, New Delhi, Paris, Prague, Rio de Janeiro, Sydney, Teheran and Washington.

Broadcasts from UN Information Centre, Geneva, Switzerland (Mo.-Fri.)

On HBQ 6675 kc/s.

18.15 English Programme (Mon.-Wed.-Fri.)

18.15 French Programme (Tues., Thurs.)

18.30 English News 18.45 French News

CENTRAL AMERICA

BARBADOS

(Operated by Cable & Wireless Ltd.).

Address: Barbados Radiodiffusion Service Ltd., Trafalgar St., Bridgetown, M.5.

Station: ZNX32 7547 kc/s 39.75 m 5 kW.

International cricket, tennis and turf club race meetings beamed to Trinidad, British Guiana & Jamaica approx. 16.30-21.30 Sat. and Thurs. at the beginning of March and August and medio November only.

Verification by letter.

BERMUDA ISLANDS

BERMUDA BROADCASTING CO. Ltd.

(Commercial).

Address: Pitts Bay Road, Pembroke. *Cable:* ZBM, Bermuda

Leading Personalities: Dir. & Gen. Man.: Gerry Wilmot.

Comm. Man.: W. Staskow. Dir. Progr.: D. Carey. News

Dir.: G. Robinson.

HOME SERVICE (English):

<i>Station</i>	<i>kc/s</i>	<i>m</i>	<i>kW</i>	<i>Station</i>	<i>kc/s</i>	<i>m</i>	<i>kW</i>
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ZBM1	1235	242.9	0.25	ZBM2	1340	223.8	0.25
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ZBM1: W.: 10.00-04.00. Sun.: 12.30-03.00. - **ZBM2:** W.:

14.00-22.00. Sun.: 13.00-03.00.

News: 11.45, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.00, 03.30.

Announcement: "These are the stations of the Bermuda Broadcasting Company. This is ZBM1 (or ZBM2)".

Verification by QSL-card or letter. Return postage appreciated, but not demanded.

Future-Plans: ZBM2 schedule will probably be increased to 12.00-02.00.

COSTA RICA

Language: Spanish exc. where indicated.

Short Waves (Commercial except TIFC religious).

<i>Call</i>	<i>kc/s</i>	<i>m</i>	<i>kW</i>	<i>mw</i>	
TIGPH	5875	51.06	1		(TIGPH) Alma Tica, San Jose
TIQ	5990	50.08	1		(TIQ) R. Casino, Limon
TIHBG	6006	49.95	1.5		(TIHB) R. Cristal, San Jose
TIMC	6074	49.38	1		R. Guanacaste, Liber.
TITH	6075	49.38			(TISG) R. Excelsior, San Jose
TIRH	6150	48.78	0.25		(TIRH) R. El Mundo, S. Jose
TILS	6165	48.66	2		(TILS) "Para Ti", San Jose
TIGPH4	6180	48.54	3		(TIGPH2) N. Alma Tica, S. Jose
TITH	6500	45.88	1		(TISG) R. Excelsior, S. Jose
TIHH	6744	44.48	3		(TIRS) R. Athenea, San Jose
TIDCR	9615	31.20	4		(TIGP) La Voz de la Victor, San Jose

TIFC	9645	31.10	1		(TIFC) Faro del Caribe, S.J.
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TIRNH	9692	30.95	3		(TIRNH) La Voz de Costa Rica, San Jose
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TIOCHO	9714	30.88	1		(TIMACHO) La Voz del Hogar, San Jose
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Medium Waves (Commercial except TIFC religious, TIUCR cultural):

<i>Call</i>	<i>kc/s</i>	<i>kW</i>	<i>sw</i>	<i>Call</i>	<i>kc/s</i>	<i>kW</i>	<i>sw</i>
TIQ	555	0.2		TIQ	815	5	
TIGPH	605	6.5		TIGPH	830	3	2)
TIPG	625	7		TIDCR	855	5	3)
TIBAS	650	8	1)	TILS	880	5	
TIHB	690	3		TIHBG	900	5	4)
TINRH	710	0.75		TINRH	920	3	
TIWX	750	3		TIRH	970	0.5	
TIGPH2	800	3		TIGPH4	995	1	

Costa Rica - Cuba

TISG 1060 1 TITH^{SW} TIUCR 1235 1
 TIMACHO 1100 1 TIOCHO
 + 15 low power m.w. stations less 3 kW.
 1) R. Monumental, S. Jose. 2) La Voz del Tropico, S. Jose. 3) La Voz de America, S. Jose. 4) R. Hispana, Cartago.

ALMA TICA - TIGPH/TIGPH4/TIGPH2 m. w.
 Address: Apartado 800, San Jose. Leading Personality: Dir.: G. Pinto H. Daily Progr.: 12.00-04.00.

R. CASINO - TIQ. Address: Limon. Leading Personality: Dir.: F. Garron S. Daily Progr.: 12.00-04.00.

R. CRYSTAL - TIHBG/TIHB m. w.
 Address: Apartado 341, San Jose. Leading Personality: Dir.: R. Barahona S. Daily Progr.: W.: 12.45-05.00.
 Announcement: "Emisoras de Radio Crystal en San Jose". Verification by letter.

R. GUANACASTE - TIMC
 Address: Apartado 25, Liberia. Leading Personality: Dir.: E. M. Blanco. Daily Progr.: 23.00-05.00.

R. EXCELSIOR - TITH/TISG m. w.
 Address: Apartado Postal 1774, S. Jose. Leading Personality: Dir.: G. Grillo O. Daily Progr.: 12.00-05.00.
 Announcement: "Emisoras de Radio Excelsior en San Jose, Costa Rica, Centroamerica". Verification by letter or QSL-card.

R. EL MUNDO - TIRH, San Jose: 02.30-05.00.

PARATI - TILS. Address: Apartado 3, San Jose. Daily Progr.: 16.00-04.30.

R. ATHENEA - TIHH/TIRS m. w.
 Address: Apartado 2208, S. Jose. Leading Personality: Dir.: O. Soleta M. Daily Progr.: 12.30-05.00. Verification by QSL-card.

LA VOZ DE LA VICTOR - TIDCR/TIGP m. w.
 Address: Apartado 3611, San Jose. Daily Progr.: 12.00-04.00. Announcement: "La Voz de la Victor, Radiodifusora Diario de Costa Rica". Verification by QSL-card.

FARO DEL CARIBE - TIFC (The Lighthouse of the Caribbean). Address: Apartado 1307, San Jose. Daily Progr.: Spanish: W.: 17.00-19.00, 21.00-04.00. Sun.: 20.00-03.30. English: W.: 04.00-05.00. Sun.: 03.30-05.00. Verification by QSL-card.

LA VOZ DE COSTA RICA - TINRH, San Jose. Daily Progr.: 12.00-04.00.

LA VOZ DEL HOGAR - TIOCHO/TIMACHO m. w., San Jose. Daily Progr.: 12.00-04.00.

CUBA

All stations commercial exc. COX4, COX7. Language: Spanish exc. where indicated. - Ha=Habana.

Short Wave Stations:

H.=Habana.

Call	kc/s	m	kW	m. w.
COX7	4290	69.63	5	CMZ Minis. de Educacion, H.
COCW	5045	59.46	1	CMW Radio Reporter, H.
COCO	6010	49.92	5	CMCK Periodico del Aire, H.
COCD	6130	48.94	1	CMCD Voz del Aire, H.
COCY	6450	46.51	1	CMCY Cad. Azul de Cuba, H.
COJK	8663	34.63	1	CMJL Voz del Camagüyana (CMQ) Camagüy
COCQ	8825	33.92	1	CMQ Circuito CMQ R. Centro, H.
COKG	8955	33.50	1	CMKL Cadena Oriental de Radio Stgo. de Cuba
COBZ	9026	33.23	1	CMBZ Radio Salas, H.
COBZ	9030	33.22	1	CMBZ Radio Salas, H.
COBQ	9235	32.49	1	CMCQ R. Onda Musical, H.
COCX	9273	32.33	1	* Talleres Tipograficos Nacionales, H.
COBC	9362	32.05	1	CMBC Radio Progreso, H.
COCO	9535	31.46	5	CMCK as 6110 kc/s
COBQ	9540	31.45	1	CMCM as 9235 -
COX4	9640	31.12	5	CMZ as 4290 -

COCQ	9670	31.02	1	CMQ	as 8825 -
COCQ	9740	30.80	1	COMQ	as 8825 -
COBL	9833	30.51	1	CMBL	R. Cadena Suaritos, H.
COCX	11650	25.75	1		as COCX
COCY	11740	25.55	1	CMCY	as 6450 kc/s
COBH	11800	25.42	1	CMCH	Onda Music. Espan., H.
COBZ	17820	16.82	1	CMBZ	as 9026 kc/s
COBC	17850	16.81	1	CMBC	as 9362 -
COCY	21620	13.87	1	CMCY	as 6450 -
COCW	21740	13.80	1	CMW	as 5045 -

* at present inactive.

Relay Habana - New York: Cuba Transatlantic, Radio Corporacion, Habana.

CMA5 5780 51.90 1 - 8630 34.76 1 - 11560 25.92 1 - 15505 19.35 1 - 17260 17.40 1

The same frequencies used for relay Santiago de Cuba-New York.

Medium Waves (2 kW and more)

Call	kc/s	m	kW	Call	kc/s	m	kW
CMW	550	546	2.5	COCW	CMCF	910	330 10 8)
CMKM	560	536	5	1)	CMJL	920	326 5
CMHI	570	527	10	2)	CMBF	950	316 5
CMCY	590	509	15		CMCK	980	306 5
CMQ	630	476	25		CMKD	970	309 2
CMHQ	640	469	15	3)	CMJG	1000	300 2
CMCU	660	455	5	4)	CMBQ	1010	297 5
CMBC	690	435	50		CMCX	1060	283 10
CMKJ	740	411	10	5)	CMJY	1190	252 2
CMCD	740	405	10		CMCA	1150	261 10
CMAB	760	395	5	6)	CMKE	1230	243 2
CMCH	790	380	10		CMKA	1250	240 2
CMKL	800	375	2		CMCI	1260	238 5
CMBZ	830	361	5		CMGN	1400	214 2
CMKU	850	353	2	7)	CMCQ	1420	211 0.25
CMBL	860	349	15		CMZ	1560	192 5
CMHM	910	330	2		COX4/		
					COX7		

+ 90 low power m.w. stations.

CMGL 1430 209 2 COXG
 1) Union Radio, Holguin. 2) Cadena Azul, Sta. Clara. 3) Circuito CMQ. 4) R. Garcia Serra, Habana. 5) Circuito CMQ, Holguin. 6) Pinar del Rio. 7) Circuito CMQ, Stgo. de Cuba. 8) Union Radio, Habana. 10) R. Continental, Habana. 11) Espacio Aereo, Habana. 12) R. Publicidad Tropico, Habana.

FM-Stations: 18 FM-stations.

MINISTERIO DE EDUCACION - COX4/COX7 s.w./CMZ m.w.

Address: Concejo Corporativo, Columbia, Habana. No regular schedule.

RADIO REPORTER - COCW s.w./CMW m.w.

Address: Calle O. Num 157, Habana. Daily Progr.: COCW: 12.00-18.00. CMW: 24 hours daily News: 13.00, 17.30, 17.45, 23.00, 24.00, 00.15.

PERIODICO DEL AIRE - COCO s.w./CMCK m.w.
 Address: Cia. Rediodifusora COCO y CMCK, SA. Maurique 166, Habana. Daily Progr.: COCO 11.30-18.15, CMCK: 13.00-06.30.

LA VOZ DEL AIRE - COCD s.w./CMCD m.w.

Address: Hotel Palace, 25 y G, Vedado, Habana. Daily Progr.: 13.00-04.00. (CMCD 05.00) Verificat. by QSL-card
CADENA AZUL DE CUBA - COCY s.w./CMCY m.w.
 Address: Prado 53, Habana. Daily Progr.: 12.00-06.00. News: 11.00, 11.59, 12.26, 15.52 (Sun.), 23.30 (W.), 05.00 (W.).

VOZ DEL CAMAGUYANA - COJK s.w./COJL m.w.
 Address: Finlay No. 3, Camaguey. Daily Progr.: 13.00-03.00.

RADIO CENTRO - COCQ s.w./CMQ (CMAQ, CMBF, CMCB, CMHQ, CMKN, CMKJ, CMJL) m.w.

Address: Circuito CMQ, Vedado Habana. Leading Personalities: President: G. Mestre. Deputy President: A. Mestre. Vice-President: A. Chabau, M. Cores, R. Puig. Daily Progr.: 13.00-05.00. News: (not Mo.) 11.00, 11.21, 11.31, 11.58, 12.40, 15.55 (Sun.), 16.52 (W.), 17.25 (W.), 22.58 (W.), 01.54 (W.), 04.00 (W.), 05.16 (W.). Announcement: "CMQ Desde Radiocentro, La Habana". Interval-Signal: "Canto Siboney" played on organ. Verification by QSL-card.

CADENA ORIENTAL DE RADIO - COKG/CMKL
CMKA, CMKD, CMKE, CMJG, CMJY, CMHM,
CMGU, CMGL, CMCI m.w.

Address: Estrada Palma No. 658, Santiago de Cuba.
Cable: "Cor". **Leading Personalities:** Predident: G. H. Rosell. Technical Dir.: A. M. Fernandez. Dir. General: E. A. Miniet. Dir. of News: E. C. Betancourt. **Daily Progr.:** 11.00-05.30. **Verification** by QSL-card.

RADIO SALAS - COBZ s.w./CMBZ m.w. Box 866
Address: San Rafael 108, Habana. **Daily Progr.:** 10.30-05.00. "English by Radio": 23.00.

RADIO ONDA MUSICAL CUBANA - COBQ s.w./CMCQ m.w.
Address: Vista Alegre 269, Vibora, Habana. **Daily Progr.:** 13.00-05.00.

RADIO PROGRESO - COBC s.w./CMBC m.w.
Address: San Jose 104, Habana. **Daily Progr.:** 13.00-05.00. (m.v. 05.30) **Verification** by letter.

RADIO CADENA SUARITOS - COBL/CMBL m.w.
Address: 25, No. 1113, Habana. **Daily Progr.:** 14.00-05.00. **Verification** by letter.

RADIO ONDA MUSICAL ESPANOLA - COBH s.w./CMCH m.w.
Address: Belascoin 362, Habana. **Daily Progr.:** 13.00-05.00. **News:** 17.30, 23.00, 01.00.

DOMINICAN REPUBLIC

All stations commercial. Language: Spanish.

Daily Programmes: 12.00-05.00 exc. where indicated.

Short Waves:

Call kc/s m kW m.w.

HI3H 3365 89.15 1 HI3V R. Villa Duarte, C. Trujillo
 HI4V 3375 88.89 1.5 HI3V R. Baru, La Vega
 HI3C 4890 61.35 0.03 La Voz del Papagayo, Bella Vista 49, La Romana

HI9B 4917 61.01 0.2 HI8B Broadcasting Hotel Mercedes, Bella Vista
 HI1A 4993 60.10 0.075 R. Caribe, Apartado 423, Santiago

HI8Z 5030 59.67 0.2 Cadena Nacional, Santiago
 HI2L 5053 59.38 0.5 HIL La Voz del Tropico, Apt. 335, C. Trujillo. **Verification** by letter

HI4T 5970 50.25 7.5 HI3T La Voz Dominicana, C. T.
 HI1J 6025 49.79 0.25 Ondas Nacionales, S. Pedro de Macoris. **Verification** by QSL-card

HI2A 6044 49.64 0.1 HI3A La Voz de la Reeleccion, Santiago. **Verification** by QSL-card

HI1N 6050 49.59 0.25 HINO Emisoras Unidas, C. T.
 HI1Z 6112 49.06 1 HIZ La Voz de los Muchachos, C. Trujillo

HI1G 6130 48.94 0.25 HIG Emisoras HIG, C. Trujillo
 HI1R 6149 48.79 0.2 HI2R La Voz de Fundacion, Calle Constitution, S. Christobal. **Verification** by QSL-card

HI9T 6190 48.47 0.1 HI9U Broadc. Tropical, Puerto Plata. **Verification** by QSL-card

HI2G 9590 31.28 0.25 HIG Emisoras HIG, C. Trujillo
 HI2T 9735 30.82 7.5 HI3T La Voz Dominicana, C. T. = Trujillo.

Medium Waves:

Call kc/s kW s.w.

HI8B 610 0.1/0.5 HI9B
 HIL 790 0.5 HI2L
 HIG 950 0.25 HI1/2G
 HI3T 1040 10 HI2/4T
 HI6T 1090 1 HI2T/4T

Call kc/s kW s.w.

HI1N 1090 0.25 HI1N
 HI9U 1240 0.25 HI9T
 HI3V 1310 0.25 HI4V
 HIZ 1350 0.1 HI1Z
 HI3A 1400 0.25 HI2A
 HI2R 1450 0.2 HI1R

FM: HI5T 100 mc/s

LA VOZ DOMINICANA - HI2T/HI4T s.w./HI3T/HI6T m.w. HI5T FM.

Address: Calle Quinta No. 8, Ciudad Trujillo. **Cable:** "Dominicana". **Daily Progr.:** 11.00-05.00 (Sun. 11.00-03.30). **News:** 03.00-03.30. "Night Club" 04.00-05.00.

Announcement: "Al servicio de la Cultura y el Progreso en general, transmite LA VOZ DOMINICANA, desde Ciudad Trujillo, Distrito de Santo Domingo, Capital de la Republica Dominicana". **Verification** by QSL-card.

LA VOZ DE LOS MUCHACHOS - HI1Z/HIZ m.w.
Address: Apartado 1092, Ciudad Trujillo. **Announcement:** "Transmite Emisoras Nacionales HIZ y HI1Z, Ciudad Trujillo, La Republica Dominicana". **Verification** by letter.

EMISORAS HIG - HI1G/HI2G.
Announcement: "Radiodifusora Nacional, Emisoras HIG, Republica Dominicana". **Interval-Signal:** Chimes.

GUADELOUPE (French West Indies)

Address: R. Diffusion Française Préfecture, Basse-Terre. S.: 658 kc 456 m 1 kW - FG8HA 7430 kc 40.40 m 0.05 kW

Daily Programs in French from 10.00-11.30, 16.00-17.30 and 22.45-01.00 (Sun. 21.30-22.15). **News** at 10.30, 16.30, and 23.20.

Announcement: "Ici Radio Guadeloupe, Poste Nationale Français". - **Interval-Signal:** Guitar.

GUATEMALA

All stations commercial exc. R. Nacional, R. Morse, Voz de Quezaltenango, Voz de la Guardia Civil and R. Cultural. Abbreviations: G.C. = Guatemala City. Moz. = Mozatenango. **Language:** Spanish.

Stations:

Short Waves:

Call kc/s m kW m.w.

TGNA 5952 50.45 5 TGN R. Cultural, G.C.
 TGTN 5970 50.25 0.5 TGTL Voz de la Telef., G.C.
 TGAR 5980 50.16 0.4 TGAQ R. Quetzal, G.C.

TGJA 5990 50.08 5 TGJ R. Nuevo Mundo, G.C.
 TGTO 6037 49.69 R. Popular, Zacatecas
 TGQA 6128 48.96 0.4 TGQ Voz de Quezaltenango, Quezalten. 01.00-04.30

TGAZ 6150 48.78 0.5 TGAX R. Continental, G.C. 12.00-05.00

TGWB 6180 48.54 1 TGWC Voz de Guatemala, G.C.
 TGRA 6255 47.96 0.15 TGR Voz de Guardia Civil, G.C. 22.00-03.00

TGTQ 6285 47.73 1 TGTO R. Internacional, G.C.
 TGLA 6295 47.66 1 TGL Voz de Centro America,
 TGTA 6335 47.35 0.25 TGT R. Bolivar, G.C.

TGCB 6570 45.66 0.2 TGCA R. Colonial, Antigua. 12.00-03.05.

TGBA 6590 45.42 1 Voz del Pacifico, Maz.
 TG2 6620 45.32 1 TG1 R. Morse, Quezatenang.

TGZA 6655 45.08 0.25 R. Oriental, Zacapa
 TGDA 7470 40.16 0.25 TGD Voz de Occidente, Quezatenango. 13.00-14.00, 18.00-19.00, 00.00-03.00

TGNB 9668 31.03 5 R. Cultural, G.C.
 TGCQ 9700 30.93 1 990 kc R. Central, G.C. 12.00-15.00, 17.00-20.00, 00.00-05.00.

TGWA 9760 30.74 10 TGW Voz de Guatemala, G.C.
 TGNC 11850 25.32 5 R. Cultural, G.C.

TGNA 15100 5 TGN Voz de Guatemala, G.C.
 TGWA 15170 19.78 10 TGW inactive
 TGNA 17870 5 TGN inactive

Medium Waves:

Call kc/s m kW s.w.

TGW 640 469 10 TGWA1 TGCA 1190 252 0.25 TGCB
 TGW 640 469 10 TGWA TGED 1208 247 0.2 5)
 TGH 700 429 0.15 1) TGL 1240 242 1 TGLA
 TGN 720 417 5 TGNA TGAQ 1270 236 0.4 TGAR

Guatemala - Haiti

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
TGRF	750	400	0.5	2)	TG1	1310	229	1	TG2
TGMX	840	357	1	3)	TGL	1340	224	1	TGTN
TGJ	880	341	5	TGJA	TGR	1360	221	0.2	TGRA
TGAX	950	316	0.5	TGAZ	TGT	1390	216	0.25	TGTA
	990	303	1	TGCQ	TGQ	1450	207	0.4	TGQA
TGXA	1050	286	0.15	4)	TGWC	1520	197	1	TGWB
TGD	1070	280	0.5	TGDA	TGTO	1570	191	1.5	TGTQ

1) La Voz del Campo, Guatemala City. 2) R. Faro Aviataca, Guatemala City. 3) R. Ciro, Guatemala City. 4) La Voz del Tropico, Guatemala City. 5) La Voz de la Capitol, Guatemala City.

RADIO CULTURAL-TGNA, TGNB, TGNC s.w./TGN
The International Missionary Radio Stations owned and operated by the Central American Benevolent Association and serving as the radio voice of the Central American Mission. - Address: Radio Station TGNA, Apartado 601, Guatemala City.

Leading Personalities: Director Rev.: H. Van Broekhoven. Chief-Engineer Rev.: H. L. Garrison (furlough U.S.A.). **Home Service** in Spanish on TGN/TGNA: 12.30-14.00, 22.30-03.00.

Foreign Service in English on TGNB, TGNC to N. America: 03.00-04.45. English programmes consist of Organ Melodies, Gospel Singer and other Internationally famous English gospel programmes.

Announcement: "These are your International Missionary Radio Stations with studios and transmitters located in beautiful Guatemala City, the capital of the 'land of eternal spring, the Switzerland of the Americas. TGNA operates nightly in the English language from 03.00 to 04.45 hours GMT utilizing the 31 and 25 meter bands of 9.67 and 11.85 meg respectively. Your correspondence invited. Mail all to TGNA, Box 601, Guatemala City, CA. **Verification** by QSL-card or letter. Return postage required.

Are you looking for an oasis on the short wave band - a place where you'll find good music of a spiritual nature and the real news of hope and peace? - Then listen to TGNA, the radio voice of the Central American Mission, to find out what good news is. In unusual and helpful programs, TGNA is "Telling the Good News Abroad" as the call letters indicate. Your correspondence will receive prompt and personal attention. Return postage appreciated.

LA VOZ DE LA TELEFUNKEN - TGTL/TGTL m.w.

Address: 12 Calle, No. 4-16, Guatemala City. **Cable:** "Telefunken". - **Leading Personalities:** Dir.: E. M. Lopez. Man.: W. Proesamer. - **Daily Progr.:** 12.30-06.00. **News:** 03.30-03.45. Other programmes mainly classical music.

RADIO NUEVO MUNDO - TGJA/TGJ m.w.

Address: 6 A, Avenida Sur No. 10-45, Guatemala City. **Cable:** "Cidio". - **Leading Personalities:** Dir. Gen.: G. E. Rosa. Administrator Gen.: L. F. Herrera.

Daily Progr.: W.: 13.00-05.00. Sun.: 15.00-03.00.

Announcement: "Radio Nuevo Mundo, Ciudad de Guatemala". - **Interval-Signal:** First movement of the National Anthem. - **Verification** by QSL-card.

LA VOZ DE GUATEMALA - TGWB/TGWC m.w.

TGWA/TGW m.w.

Address: Radio Nacional, Guatemala City. **Daily Progr.:** TGWB/TGWC 12.25-05.00. **News:** 18.45. TGWA/TGW: 13.00-05.00 (On 15170 kc/s 13.00-23.00, on 9760 kc/s 23.00-05.00). **English:** Tues., Thurs., Sat. 00.00-00.30 all stations; sponsored by the National Fair Committee. - **Announcement:** "TGW y TGWA (or TGWC y TGWB) La Voz de Guatemala en la Nueva Guatemala". **Verification** by QSL-card.

RADIO INTERNACIONAL - TGTO/TGTO m.w.

Address: 5a Avenida Sur No. 9, Apartado Postal 127, Guatemala. - **Daily Progr.:** 18.00-20.00, 22.00-08.00 (Sun. 14.00-01.00). **News:** W.: 18.15-18.45, 01.15-01.45. **Relay BBC:** 24.00, 03.15. - **Announcement:** "La Voz de la

Capital des de Guatemala" in Spanish, English and French. - **Interval-Signal:** Electrical xylophone. - **Verification** by QSL-card.

LA VOZ DE CENTRO AMERICA - TGLA/TGL

Address: 10 Street West No. 22, Guatemala City.

Daily Progr.: 00.30-04.00. - **Verification** by QSL-card

RADIO BOLIVAR - TGTA/TGT m.w.

Address: Avenida Bolivar 13-201, Guatemala City.

Daily Progr.: 00.00-04.00. - **Verification** by QSL-card

RADIO MORSE - TG2/TG1 m.w.

Address: 7a Avenida So. and 12 Street, Guatemala City

Daily Progr.: 12.30-14.00, 18.00-03.00.

RADIO ORIENTAL - TGZA, Zacapa.

Daily Progr.: 12.00-05.00. - **Announcement:** "Radio Oriental de Zacapa, Guatemala, America Central".

Interval-Signal: Vibraphone.

HAITI

All stations commercial exc. 4VEH: Religious.

Language: French (exc. where indicated).

Stations: *Short Waves:*

4VHW	5840	51.36	0.5	R. Haiti, Port au Prince
4VPL	5900	50.84	0.15	Petionville Broadc. System
4V2S	5945	50.45	0.7	R. Port au Prince
4VM	6010	49.92	1	Radiodiffusion 4VM, Port au P
4VB	6091	49.24	7.5	R. Commerce, Port au Prince
4VCM	6165	48.66	0.4	La Magloire Broadc. Circuit
4VWA	6300	47.62	0.15	R. Citadelle, C. Haitien
4VGS	6340	47.34	0.4	R. Independance, Les Gonaive
4VCP	6380	47.03	0.15	La Voix du Nord, C. Haitien
4VCN	6406	46.83	0.15	R. Tropiques, Port au Prince
*4VPB	9000	33.33	0.15	Petionville Broadc. System
4VC	9485	31.63	7.5	R. Commerce, Port au Prince
4VEH	9692	30.95	3	} La Voix Evangelique, C. Haitin
4VEH	9729	30.83	3**	
4VRW	10075	29.78	0.5	R. Haiti, Port au Prince

* Day. ** Night. *Medium Waves:*

Call.	kc/s	m	kW	s.w.	Call.	kc/s	m	kW	s.w.
4VP	1020	294	0.15	4VPL	4VW	1300	231	0.5	4VHW
				4VPB					4VRW
4VA	1080	277	1	4VB	4VS	1380	217	0.4	4V2S
				4VC	4VGM	1470	204	1	4VCM
4VYM	1250	240	1	4VM	4VG	1500	200	0.4	4VGS

RADIO HAITI - 4VHW/4VRW/4VW

Address: Etage Crystal Market, Rue Bonnefoi, Port-au Prince. **Leading Personality:** Dir.: R. Wiedmaier.

Daily Programmes: 12.00-03.00. **News:** 12.00, 17.30, 23.30. **Spanish:** Sun. 21.40-21.55. **English:** Fri. 02.30-03.20. - **Announcement:** French, English, Spanish: "Vous ecoutez R. Haiti, postes 4VW, 4VRW et 4VHW"

Interval-Signal: Gong (4 notes). - **Verification** by letter

PETIONVILLE BROADCAST SYSTEM - 4VPL/4VPB/4VP

Address: Petion Ville. - **Leading Personality:** Dir.: Ernst Walker. - **Daily Programmes:** 20.00-03.00.

RADIO PORT-AU-PRINCE - 4V2S/4VS

Address: Rue Pavee, Port-au-Prince. - **Leading Personalities:** Dir.: A. Herard and R. Rigaud. - **Daily Programmes:** 11.00-13.00, 17.00-19.30, 22.00-03.00. - **News:** 12.30, 17.00, 23.30. - **Announcement:** French, English.

"Ici Radio Port-au-Prince postes 4VS, 4V2S". - **Interval-Signal:** Gong. - **Verification** by letter.

RADIO DIFFUSION 4VM/4VYM

Address: Ruelle Jeanty, Port-au-Prince. - **Leading Personality:** Dir.: Y. Michel. - **Daily Programmes:** 17.00-20.00, 23.00-02.30. **News:** 17.00, 23.30. - **Announcements:** French, English, Spanish: "Vous ecoutez le poste de Radiodiffusion 4VM travaillant simultanement dans le

bandes de 49 m.b. et 240 metres a Port-au-Prince capitale de la Rep. d'Haiti".

RADIO COMMERCE - 4VB, 4VC/4VA m.v.

Address: Box 1143, Port-au-Prince. **Leading Personality:** Owner and Dir.: Sperna. Chief Engineer: E. C. Genti

Daily Programmes: 4VB: 20.00-04.00. 4VC: 10.30-13.30

4VA: 11.30-04.00. **Announcement:** French, Creole, Eng

lish: "Ici Radio Commerce, émettant de Port-au-Prince, Capitale de la République d'Haiti. Radio Commerce au Service du Progrès national dans l'Ordre et le Travail...".
LA MAGLOIRE BROADCASTING CIRCUIT – 4VCM/4VGM

Address: 36, rue Americaine, Port-au-Prince. **Leading Personality:** Owner and Dir.: Franck Magloire. **Daily Programmes:** 16.30–19.30, 23.00–02.30. **News:** 18.05, 23.30 (local). **Announcement:** "Ici la MBC a Port-au-Prince, capitale de la Rep. d'Haiti, travaillant simultanément dans les bandes de 204 mètres et 49 mètres et affiliée a la National Broadcasting Comp. **Interval-Signal:** Gong. **Verification** by QSL-card.

RADIO CITADELLE – 4VWA

Address: Cap Haitien. **Leading Personality:** Dir.: Wainright. **Daily Programmes:** 12.00–15.00, 21.00(Sun. 19.00)–03.00. **News:** 23.00, 23.45. **Announcement:** "Ici Radio Citadelle, Poste 4VWA, au Cap Haitien, capitale touristique de la République d'Haiti, Grandes Antilles". Closes down with "La Demassalinienne".

RADIO INDEPENDANCE – 4VGS/4VG

Address: Les Gonaïves. **Leading Personality:** Directors: J. Dupuy and E. Mitton (Owners). **Daily Programmes:** 11.00–13.00, 17.00–19.30, 22.00–02.00. **News:** 00.00–00.15. **Announcement:** "Ici Radio Indépendance, Poste 4VGS et 4VG à Gonaïves, République d'Haiti, Grandes Antilles". **Verification** by QSL-card.

LA VOIX DU NORD – 4VCP

Address: Cap Haitien. **Leading Personality:** Dir. E. Anacron. **Daily Programmes:** 17.00–19.30, 23.00–02.00. **Announcement:** *French:* "Ici la Voix du Nord, Poste Commercial de Radiodiffusion 4VCP, affilié à la chaîne de la Paix des Nations Unies...". *Spanish:* "La Voz del Norte". *English:* "The Voice of the North".

RADIO TROPQUES – 4VCN

Address: 23, Ruelle Dufort, Port-au-Prince. **Leading Personality:** Dir. and Owner: R. Dambreville. **Daily Programmes:** W.: 11.00–12.30, 23.00–01.30. Sun.: 13.00–15.00, 23.00–01.00. **News:** 12.00, 01.00. **Announcement:** "Ici Radio Tropiques, Poste 4VCN, travaillant sur la longueur d'onde de 49 mètres, fréquence de 6406 kc/s, à Port-au-Prince, Capitale de la République d'Haiti". **Verification** by letter. **Future-Plans:** Schedule to be extended. Two transmitters (s.w. and m.w.) 0.5 kW each, will replace the present equipment.

LA VOIX EVANGELIQUE – 4VEH

Address: East and West Bible Mission, Box 1, Cap Haitien. **Leading Personalities:** Dir. and President: G. T. Bustin. Techn. Dir.: M. E. Picazo. Dir. of English Progr.: Mrs. M. E. Picazo. **Daily Programmes** in *English*, *Spanish*, *French*, *Creole*: 9692 kc/s: W.: (exc. Thurs.) 11.00–14.00 (11.00 Organ, 11.30 *French/Creole*, 12.00 *Spanish*, 13.00 *English*). Sun.: 11.00–13.50 (11.00 Organ, 11.30 *English*, 12.00 *Spanish*, 12.30 *English*). 21.30–00.00 (Sun. only) (21.30 *French/Creole*, 22.30 Organ, 23.00 *Spanish*. 9729 kc/s: 00.00–02.30 (Mo. only) *English*.

Announcement: *English:* "You are listening to radio Station 4VEH located at Cape Haitien, Haiti". *Spanish:* "Eschucha. Ud. La radiodifusora 4VEH situada en Cabo Haitiano Republica de Haiti". *French:* "C'est la Voix Evangelique D'Haiti, Station Radio Diffusion 4VEH, Cap Haitien, Haiti". **Verification** by QSL-card. **Future-Plans:** Mailbag programme and a 5 kW st.

HONDURAS (British)

BRITISH HONDURAS BROADCASTING SERVICE (Government)

Address: Public Relations Office, Belize.

Stations: ZIK2 "Radio Belize". 1230 kc 243.9 m 0.5 kW. 3300 kc/s 90.91 m 5 kW – 6100 kc/s 49.18 m 0.25 kW 4950 kc/s 60.60 m 5 kW.

Daily Programmes: 18.00 (Sun. 17.00)–20.00, on 1230, 4950, 6100 kc, 00.00–03.00 on 1230, 3300, 4950 kc/s. **News:** 01.00, *Spanish:* 02.00. (B.B.C.).

Announcement: This is the British Honduras Broadcasting Service.

Verification by QSL-card.

HONDURAS (Rep.)

All stations commercial exc. HROW. Language: Spanish. **Stations:**

Short Waves:

HRN	5885	50.94	1	*)	La Voz de Honduras, Tegucigalpa. 12.30–20.00, 23.00–04.00
HRA	5935	50.55	1	†)	La Voz de Lempira, Tegucigalpa. 13.00–15.00, 19.30–04.00.
HROW	6020	49.83	1	§)	R. Monserrat, Tegucigalpa.
HRTL	6035	49.71	1		R. Tela, Tela. 13.00–04.00.
HRQ5	6070	49.42	0.25		La Voz de Suyapa, Tegucigalpa. 12.00–05.00.
HRXW	6105	49.14	0.25		R. Comayagüela, Comayagüela 17.30–04.00.
HRQ	6125	48.98	1		La Voz de Suyapa, San Pedro Sula. 12.00–05.00.
HRSU	6187	48.49	1		R. Progreso, San Pedro Sula. 12.00–05.00.
HRD2	6235	48.12	0.3		La Voz de Atlantida. La Ceiba.
HRP1	6360	47.16	0.6		El Eco de Honduras, San Pedro Sula. 16.00–19.30, 23.00–24.00.
HRLP	6410	46.80	0.6		R. America, Tegucigalpa. 12.00–05.00 (Sun. 06.05).
HROW	6675	44.95	2		R. Monserrat, Tegucigalpa.
HRA	9047	33.16	1	as	5935 kc/s.

*) m.w.: 1450 kc/s. †) m.w.: 1100 kc/s. §) m.w.: 850 kc/s.

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
HROW	850	353	0.3		HROW	HRN	1450	207	0.5
HRA	1100	273	5		HRA				

RADIO MONSERRAT - HROW

Address: Radio Monserrat, Cadena Radial Hondurena, Tegucigalpa. **Cable:** "Monserrat". **Daily Progr.:** 12.50–04.00. **News:** 12.55, 19.30, 01.00. **Announcements:** On 850 kc/s: "R. Monserrat HROW". On 6020 kc/s: "Radio Reloj Musical". On 6675 kc/s: "R. Monserrat HROW, la Emisora de los Hondureños". **Verification** by letter. IRC required.

LA VOZ DE ATLANTIDA - HRD2

Address: Avenida 14 de Julio, La Ceiba.

Daily Progr.: 16.30–19.30, 23.00–03.00.

JAMAICA (British West Indies)

Address: Jamaica Broadcasting Co. Ltd., 32, Lyndhurst Road, Cross Roads P.O. Jamaica, B.W.I. **Cable:** Broadco. **Leading Personalities:** Man. Dir.: W. A. Mac Lurg. Asst. to the Man. Dir. & Sales Man.: A. L. Hendriks. Progr. Dir.: J. E. Phillips. Chief Eng.: A. H. Dickinson. **HOME SERVICE:** R. Jamaica, ZQI 5 kW, 670 kc/s 447.7 m, 4950 kc/s 60.60 m, 3360 kc/s 89.26 m. W.: 11.00–04.00. Sun.: 12.00–04.00.

On 670 kc/s: throughout.

On 3360 kc/s: W.: 11.00–12.05, 22.20–04.00. Sun.: 21.45–04.00

On 4950 kc/s: W.: 12.30–22.15. Sun.: 12.00–21.30.

News: 12.30 (local), 16.00 (B.B.C.), 17.30 (local), 23.00 (B.B.C.), 23.10 (local), 02.00 (B.B.C.), 02.10 (local).

Announcement: "This is Radio Jamaica and the Rediffusion Network".

Verification by letter. Return postage required.

MARTINIQUE (French West Indies)

Address: Radiodiffusion Française, Pavillon du Tourisme Fort de France.

Stations: 1500 kc/s 200 m 1 kW.

FNRI 9700 kc/s 30.93 m 0.4 kW.

Daily Progr.: 10.30–11.30(Sun. 11.30–13.00), 16.15–17.45 (Sat., Sun. 19.30), 22.30 (Sun. 22.00)–01.15 (Sat. 02.00). **News:** 11.00, 17.00, 23.30 (Relays from Paris).

Martinique - Mexico

Announcement: "Ici Radio Martinique, Poste National Français". **Interval-Signal:** The first six notes of "Sous les Ponts de Paris" on Xylophone. **Verification** by QSL-card.

MEXICO

Language for all stations: **Spanish.**

Short Waves: Commercial:

Call.	kc/s	m	kW	m.w.	name, town
XEOI	6010	49.92	2.5	XEOY	Radio Mil, Mexico
XEUW	6020	49.83	0.25	XEU	El Eco de Sota. V. Cruz
XEKW	6030	49.75	0.5	XESF	R. Morelia, Morelia
XETW	6045	49.66	0.1	XEFW	La Voz de Tampico, T.
XEXG	6065	49.46	5	XEX	La Voz de Mexico, Mx.
XEQH	6130	48.94	0.5	XEQB	R. Central de Mexico,
XECC	6185	48.50	0.05	XECD	R. Puebla, Puebla
XEWV	9500	31.58	10	XEW	La Voz de la America Latina

XEXF	9535	31.46	5	XEX	La Voz de Mexico, Mx.
XEFT	9545	31.43	0.25	XETF	La Voz de Vera Cruz
XETT	9555	31.40	0.5	XEQK	La Hora Exa., Mex. DF
XERQ	9610	31.22	5	XEQR	Corpor. Mexicana de Radio S.A., Mexico DF

XEBT	9625	31.18	10	XEB	Las Emisoras de Am.
XEQQ	9680	30.99	1	XEQ	R. Panameric., Mexico
XENN	11780	25.47	0.5	XEN	R. Mundial, Mexico
XEBR	11820	25.38	0.15	XEBH	El Heraldo de Sonora,
XEHH	11880	25.25	1	XERH	La Voz Potosina, Mex.
XEXE	11900	25.21	10	XEX	La Voz de Mexico, M.
XEFC	15205	19.73	5	XEMC	La mas Espanola, Mex.

Government and Cultural:

XEJG	4820	62.24	0.2	XEJB	Gobierno del Estado de Jalisco, Guadalajara
XEXA	6175	48.58	0.1	XEDP	R. Gobernacion, Mex.
XEYU	9600	31.25	0.25	XEUN	Univ. Nacional, Mex.

Medium Waves: Commercial.

XEWA	540	556.	150		La Voz de la America Latina. San Luis
XEMU	580	517.2	5		El Heraldo del Conchas Piedras Negras
XEPH	590	508.5	5		Radio 590, Mexico DF
XERT	590	508.5	5		Radio 590, Reynosa
XENK	620	483.9	5		Radio 620, Mexico DF
XEFB	630	476.2	5		La Voz del Norte, Monterrey

XELG	680	441.2	5		R. Insurgentes, Leon
XEN	690	434.8	5	XENN	R. Mundial, Mex. DF
XEAC	690	434.8	5		R. Mundial, Tijuana
XEX	730	411.0	250	XEXE	La Voz de Mexico, Radiodifusora de Piedras Negras, Ciudad Juarez-13.00-06.00
XELO	800	375.0	150		

XEFW	810	370.4	50	XETW	La Voz de Tampico, R. Provincial, Tijuana
XEMO	860	348.8	5		
XEW	900	333.3	100	XEWV	La Voz de la America Latina, Mexico DF

XEBH	920	326.1	5	XEBR	El Heraldo de Sonora,
XEQ	940	319.1	50	XEQQ	R. Panamericana S.A.,
XEU	960	312.5	0.5	XEUW	El Eco de Sotavento,
XEJ	970	309.3	5		La Voz de Ciudad Juarez, C.D. Juarez

XET	990	303.0	5		El Pregonero del Norte S.A., Monterrey
XECL	990	303.0	5		Radio Comercial, Mexicali

XEOY	1000	300.0	10	XEOI	Radio Mil. Mexico DF
XEHL	1010	297.0	10		R. Internacional, Guadalajara

XEQR	1030	291.3	1	XERQ	Corporacion Mexicana de Radio, Mexico DF
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XED	1050	285.7	5		La Voz de Baja California, Mexicali
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XEG	1050	285.7	100		La Voz de Norteamerica, Monterrey
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Call.	kc/s	m	kW	s.w.	name, town
XERB	1090	275.2	50		R. Sultana de Lerma, Rosarito BC
XEQB	1110	270.3	5	XEQH	R. Central de Mexico,
XENT	1140	263.2	50		R. Sultana del Norte, Nueva Laredo-13.00-06.00

XECD	1170	256.4	0.35	XECC	R. Puebla, Puebla
XEB	1220	245.9	100	XEBT	Las Emisoras de America, Mexico DF

XETF	1250	240.0	0.5	XEFT	La Voz de Vera Cruz,
XEL	1260	238.1	5		R. Capital, Mexico DF
XESF	1300	230.8	0.5	XEKW	R. Morelia, Morelia
XEBP	1310	229.0	5		La Voz de la Laguna, Torreon

XEQK	1350	222.2	1	XETT	La Hora Exacta, Mex.
XEAU	1470	204.1	5		La Voz de California, Tijuana

XESM	1470	204.1	5		Heraldo del Chocolate, Abuelita, Mexico DF
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XERH	1500	200.0	5	XEHH	La Voz Potisina,
XEBG	1550	193.5	5		R. Comercial, Tijuana
XERF	1570	191.1	50		La Voz de la Provincia, Villa Acuna

XEDM	1580	190	50		24 hours daily
XEMC	1590	188.7	5	XEFC	R. Hermosillo 13-06.00
XELC	1600	187.5	5		La mas Espanola, R. Centro, La Piedad

Government and Cultural:

XEJB	630	476.2	0.5	XEJG	Estado de Jalisco
XEUN	860	348.8	5	XEYU	R. Universidad, Mex.
XEDP	1060	283.0	0.5	XEXA	R. Gobernacion, Mex.

FM (Commercial):

XEX-FM 101.7 mc/s 0.25 kW XEX La Voz de Mexico, CADENA RADIO MIL- XEOI/XEOY m.w.

Address: Fomento de Radio, Plaza de Santos Degollado No. 10, Mexico DF. **Leading Personalities:** Dir. Gen.: L. G. Salos. Vice-Dir.: A. Ramos. Dir. of Progr.: C. Flores. Techn. Dir.: Ing. M. Canale. D.: 13.55-06.30.

EL ECO DE SOTAVENTO-XEUW/XEU m.w.

Address: Independencia 230, Vera Cruz. D.: 13.00-05.30.

RADIO MORELIA-XEKW/XESF m.w.

Address: Av. Madero y Serapio Rendon Ote, Morelia. D.: 13.00-05.30. Signs announcements Spanish, English.

LA VOZ DE TAMPICO-XETW/XEFW m.w.

Address: Apartado 797, Tampico. Directors: V. Flores and J. E. Martinez.

Home Service in Spanish: 13.30-24.00. **News:** 13.45.

Foreign Service: English 10.30-13.30, 00.30-06.00 U.S.A.

LA VOZ DE MEXICO-XEXE/XEXG/XEXF/XEX m.w.

Address: Radio de Mexico SA de C.V., Cordoba No. 48, Mexico DF. **Relay from XEQ** 13.00-06.00. **News:** 13.45, 21.00, 23.53, 01.15, 03.00, 03.45, 04.15, 05.50.

RADIO CENTRAL DE MEXICO-XEQH/XEQB m.w.

Address: Artículo 123 90, 2/0, Piso, Mexico DF. D.: 16.00-06.00.

RADIO PUEBLA-XECC/XECD m.w.

Address: 2, Norte Nr. 803, Puebla. D.: 13.00-04.00.

LA VOZ DE LA AMERICA LATINA-XEWV/XEW (XEW relay) m.w.

Address: Cadena Radiodifusora Mexicana SA, Ayuntamiento Nr. 52 y 54, Mexico DF. **Leading Personalities:** Pres.: E. Agcorraga. Dir.: O. M. Velez. Dir. of Public Relations: J. Susan. Chief Eng.: J. de la Herran. Transmits day and night. XEWA-San Luis, Potosi relaying XEW. **Announcement:** Call given every quarter of the hour: "XEW y XEWV Ciudad de Mexico".

Verification by QSL-card.

LA VOZ DE VERA CRUZ-XEFT/XETF m.w.

Address: Independencia Nr. 74, Vera Cruz. D.: 13.55-04.30. - **Verification by QSL-card.**

LA HORA EXACTA-XETT/XEQK m.w.

Address: Dolores 10, Primer Piso, Mexico. This station transmits the time every minute day and night.

CORPORACION MEXICANA DE RADIO-XERQ/XEQR m. w.

Address: Artículo 123#90, 2/a Piso, Mexico DF.
D.: 13.00-06.00.

LAS EMISORAS DE AMERICA-XEBT/XEB m. w.

Address: El Buen Tono, S.A., Calle del Buen Tono No. 6, Apartado Postal 13347, Mexico DF. **Leading Personalities:** Man. Ing.: A. Duprat Pugibet. Dir. of Progr.: J. M. Millan. Techn. Dir.: Ing. J. C. Buchanan. D.: 14.00-06.00. **Announcement:** "XEB y XEBT Las Emisoras de America en Mexico". **Interval-Signal:** From Liszt's "Liebestraum". Between each program cuckoo signals. **Verification** by QSL-card.

RADIO PANAMERICANA S.A.-XEQQ/XEQ

Address: J. M. Marroqui No. 11, Mexico DF (for letters from listeners: Apartado Postal No. 940). **Leading Personalities:** Dir.: E. Balli. Vice-Di.: S. Garza. Techn. Dir.: Ing. J. E. de la Herran. Dir. of Progr.: R. Cardona. Dir. of Public Relations: R. Artansanehez. D.: 13.00-06.00 relayed by XEX. "La Cadena Azul" (a common programme from XEQ is relayed by XEX and 16 other m.w. stations) 11.45-17.00. **Verification** by QSL-card.

RADIO MUNDIAL-XENN/XEN and XEAC m. w.

Addresses: XEN: Delgada Mexico#44, P.O. Box 25979, Mexico DF. (XEAC: Tijuana.) **Leading Personality:** Dir. Ing.: Salvador del Conde.

EL HERALDO DE SONORA-XEBR/XEBH m. w.

Address: Serdan 144, Apartado 68, Hermosillo. D.: 14.00-17.00, 23.00-04.00.

LA VOZ POTOSINA-XEHH/XERH m. w.

Address: A.R.S.E. S.A., Tempoala No. 77, Mexico DF. **Leading Personalities:** Dir. Gen.: A. Tuero. Techn. Dir.: R. Lasalle. D.: 13.55-06.30.

LAMAS ESPANOLA DEL MUNDO-XEFC/XEMC

Address: P.O. Box 9027, Mexico DF. **Leading Personalities:** Man.: R. Ferreira. Techn. Dir.: Ing. J. Carrazzo. This station beams programmes day and night for Spain and Europe.

GOBIERNO DEL ESTADO DE JALISCO-XEJG/XEJB m. w.

Address: Palacio de Gobierno, Guadalajara. D.: 13.00-05.00.

RADIO GOBERNACION-XEXA/XEDP m. w.

Address: Secretario de Gobernacion, Calle Bucareli, Mexico DF. This station transmits occasionally national and official events and every monday 04.00-05.00 the program "La Hora Nacional", relayed by all stations. **UNIVERSIDAD NACIONAL DE MEXICO-XEYU/XEUN**

Address: Calle de Justo Sierra No. 16, Mexico DF. **Leading Personalities:** Gen. Man.: Alejandro Quijano Jr. Chief of Relations: E. L. Mocezuma. D.: 23.00-05.00.

RADIO CAPITAL-XEL

Address: Paseo de la Reforma No. 400, 7°Piso, Mexico. **Leading Personalities:** Gerente Fidel: H. Calderon. Pte Ejecutivo: I. Carral y Cosa. Vice-Pte: A. Tolvi. **Foreign Service:** 20.00-21.30, 00.30-04.00 English. **Future-Plans:** A s.w. station of 10 kW for programmes in English, French and Italian for U.S.A.

NICARAGUA

Language: Spanish.

Stations commercial exc. YNV and YNAM.

Short Waves:

Call	kc/s	m	kW	m. w.	
YNDG	5943	50.48	1		R. Colonial, Leon
YNBH	6015	49.88	1	YNBH	R. Panamericana,
YNEQ	6065	49.46	0.2	YNEQ	Voz de la Victoria,
YNOW	6077	49.36	0.6	YNKW	Voz de la America
					Central, Managua
YNV	6100	49.18	2		R. Nacional, Managua
YNVP	6185	48.50	0.4	YNVP	Voz de Nicaragua, M.
YNWA	6465	46.40	0.4	YNW	R. Mundial, Managua

Call	kc/s	m	kW	s. w.	name, town
YNBH	6550	47.75	0.75	YNBH	R. Panamericana, M.
YNAM	7400	40.54	0.5		Academia Militar, M.
YNLAT	7625	39.34	0.4	YNLAT	Voz del Mombacho, G.
YNWW	7850	38.20	0.4		R. Sport, Granada
YNXA	7865	38.14	0.1		Ondas Culturales,
YNMG	8007	37.46	0.1		Voz de Jinotepe, Jinot.
YNV	9715	30.88	2		R. Nacional, Managua
YNV	11815	25.39	2		R. Nacional, Managua
YNV	15215	19.71	2		R. Nacional, Managua

Medium Waves:

Call	kc/s	m	kW	s. w.	
YNW	930	323	0.4	YNWA	
YNVP	1000	300	1	YNVP	R. Mil, Managua
YNLAT	1050	286	0.4	YNLAT	
YNRM	1090	275	0.15		R. Musin, Matagalpa
YNEQ	1100	273	0.12	YNEQ	
YNJC	1150	261	0.125		R. Lucia, Chinandega
YNUW	1200	250	0.2		R. Dário, León
YNBH	1230	244	1.8	YNBH	
YNIA	1250	240	0.1		R. Meridional, Rivas
YNRL	1320	227	0.15		La "V" de la Victoria,
					Granada
YNKW	1340	224	0.5	YNOW	
YNFT	1370	219	0.2		La Voz de la Sultana,
					Granada
HTX	1400	214	0.25		R. Managua, Managua
YNMN	1410	213	0.4		La Voz de la Philco,
					León
YNWN	1450	207	0.15		R. Granada, Granada
YNDX	1460	206	0.1		La Voz de Diriagen,
					Masaya
YNMV	1490	201	0.5		R. Continental, M.
YNGA	1520	197	0.1		R. Atlantico, Bluefields
YNAS	1560	192	0.1		Ondas del Xolotlan, M.

M. = Managua; G. = Granada.

RADIO COLONIAL-YNDG. Owner: D. E. Gallo. **Daily Progr.:** 23.00-03.00.

LA VOZ DE LA VICTORIA - YNEQ/YNEQ m. w.

Address: Apartado 338, Managua. **Owner:** A. Solis h. **Daily Progr.:** W.: 13.00-16.00, 17.00-20.00, 21.00-04.00. Sun.: 15.00-02.00.

LA VOZ DE LA AMERICA CENTRAL - YNOW/YNKW m. w.

Address: Calle Noreste No. 607, Managua. **Owner:** J. Mendoza O. **Daily Progr.:** 13.00-05.00.

RADIO NACIONAL - YNV. Address: Gobierno de Nicaragua. Occasional broadcasts.

LA VOZ DE NICARAGUA - YNVP/YNVP m. w.

Address: Radiodifusora YNVP, Managua. **Owner:** Dr. Juan Velazquez Prieto. **Daily Progr.:** 12.00-20.00, 22.00-06.00. **Announcement:** "Esta es La Voz de Nicaragua emisora afiliada a la Cadena Panamericana de la NBC, en Managua". **Interval-Signal:** Gong.

RADIO MUNDIAL - YNWA/YNW m. w. Address: Sr. Manuel Arana Valle, Managua. **Daily Progr.:** 13.00-03.00.

RADIO PANAMERICANA - YNBH/YNBH m. w. Address: Managua. **Leading Personalities:** Dir. General:

E. R. Solis. Progr. Dir.: J. G. Saenz. Chief of News and Producer: O. M. Lira. Chief of Music: R. A. Selva.

Daily Progr.: 12.00-06.00. **Announcement:** "Aqui YNBH Radio Panamericana en Managua, Nicaragua, Centro America". **Interval-Signal:** Three strokes on xylophone. **Verification** by letter.

LA VOZ DEL MOMBACHO - YNLAT/YNLAT m. w. Address: Irma Tenorio, Granada. **Daily Progr.:** 22.00-03.15. **Verification** by letter.

RADIO SPORT - YNWW. Address: Sr. Manuel Arana Valle, Granada. **Daily Progr.:** 13.00-03.00.

ONDAS CULTURALES - YNXA, Masaya.

Daily Progr.: 22.00-04.00.

LA VOZ DE JINOTEPE - YNMG. Owner: Senorita Margarita Gomez. **Daily Progr.:** 17.30-19.00, 01.00-02.30. **Verification** by letter.

Panama - Salvador

PANAMA

Language: *Spanish* exc. where indicated. *Commercial*.
Abbreviations: C.=Colon. P.=Panama.

Short Waves:

Call	kc/s	m	kW	m.w.
HO50	5995	50.04	1	HOHM R. Programas Continental, P.
HP5K	6005	49.96	1	HON Voz de la Victor, C.
HP5B	6030	49.75	0.25	HP5C R. Cadena Miramar, P.
HOU31	6045	49.63	1	HOU Voz del Barú, David
HORT	6060	49.50	0.5	HORS R. Balboa, P.
HOO	6090	49.26	0.3	HOOH La Independiente, P.
HP5H	6122	49.00	0.5	HOHA Voz del Pueblo, P.
HOQQ	6140	48.86	0.5	HOQ La Radio Nacional, P.
HOB	6175	48.58	0.3	HOA R. Panamericana, P.
HOLA	9505	31.56	0.25	HOL R. Atlantico, C.
HP5J	9607	31.23	0.25	HOK3 La Voz de Panama, P.
				HPM21 La Voz de Panama, P.
				HP6J La Voz de Panama, P.
HOJA	9645	31.10	0.3	HOJ R. Provincias, Chitre
HOH7	9735	30.82	1	HOF Onda Popular, P.
HP5A	11700	25.64	0.5	HOC Cadena Panamena de Radiodifusion, P.
				R. Panamericana, P.
HP5G	11780	25.47	0.8	HOG Ondas Chiricanas,
HOXB	11810	25.40	0.5	HOOC Ondas Centrales,
HPS62	11895	25.22	0.25	HOHS Santiago
				R. Elebrock, Penoneme
HOM51	15100	19.87	0.25	HOMP

Medium Waves:

Call	kc/s	m	kW	s.w.
HOH3	580	517	1	R. Progreso Chitre, P.
HOHM	610	492	1	HO50
HOH4	660	455	1	R. Programa Continental, David, P.
HOLY	670	448	0.5	"Emisora del Arzobispado" (Your Family St.), P.
				R. El Mundo, Panama
HOE97	700	429	4	
HP5C	730	411	0.5	HP5B
HOG	840	357	0.3	HP5G
HOHA	900	333	0.25	HP5H
HOF	980	306	1	HOH7
HOMP	990	303	0.5	HOM51
HOU	1025	292	1	HOU3
HPM21	1060	283	0.5	HP5J
HOA	1090	275	1	HOB
HOJ	1130	265	0.4	HOJA
HOQ	1250	240	0.25	HOQQ
HOK3	1310	229	0.3	HOLA
HP6J	1358	221	0.25	HP5J
HOOC	1370	219	0.8	HOXB
HOL	1390	216	0.25	HOLA
HOHS	1400	214	0.5	HPS62
HORS	1410	213	0.5	HORT
HOC	1440	208	0.25	HP5A
HOOH	1470	204	1	HOO
HON	1500	200	0.25	HP5K

+ 22 low power m. w. stations. and 3 FM stations.

RADIO PROGRAMAS CONTINENTAL HO50 s.w./HOHM m. w.

Address: Apartado 1795, Panama. Owner: Fernando Eleta A. **Daily Progr.:** 11.00-05.00. Sun.: 13.00-02.00. **News:** 11.30, 17.30, 23.30, 03.45 (HOH2, Colon, and HOH4, David, in parallel). **Announcement:** "Transmite el Circuito RPC en la Ciudad de Panama y en Colon". **Verification** by letter.

LA VOZ DE LA VICTOR - HP5K s.w./HON m. w.
Address: Apartado 33, Colon. Owner: Union Radio. **Daily Progr.:** 11.00-04.00.

RADIO CADENA MIRAMAR HP5B s.w./HP5C m. w.
Address: Apartado 910, Panama. Owner: E. de la Guardia Jr. **Daily Progr.:** 11.00-04.00. **Verification** by QSL-card. (HOX, Panama, in parallel.)

LA VOZ DEL BARU - HOU31 s.w./HOU m. w.
Address: Edificio Carta Virja, David. **Daily Progr.:** 11.00-04.00.

RADIO BALBOA - HORT s.w./HORS m. w.
Address: Apartado 1524, Panama. Owner: Demetrio A. Porras. **Daily Progr.:** 11.30-03.00.

LA INDEPENDIENTE - HOO s.w./HOOH m. w.
Address: Apartado 545, Panama. Owner: José Sosa M.

LA VOZ DEL PUEBLO - HP5H s.w./HOHA m. w.
Address: Apartado 1045, Panama. Owner: M. Lombardo Vega. **Daily Progr.:** 12.00-03.30.

LA RADIO NACIONAL - HOQQ s.w./HOQ m. w.
Address: Apartado 652, Panama. D. Pr.: 11.30-04.00.

RADIO PANAMERICANA - HOB s.w./HOA m.w. - HP5G s.w./HOG m.w.

Address: Apartado 1121, Panama. Owner: Gilberto Arias. **Daily Progr.:** 11.00-05.00. (HOW, Colon, in parallel.)

RADIO ATLANTICO - HOLA s.w./HOK3
Address: Apartado 444, Colon. Owner: Anibal Galindo. **Daily Progr.:** 11.00-05.00. **News:** 17.35, 22.35. **Verification** by QSL-card.

LA VOZ DE PANAMA - HP5J s.w./HPM21, HP6J m.w.
Address: Apartado 867, Panama. Owner: Manuel Dias Doce. **Daily Progr.:** 12.00-03.30. **English Request Pr.** 01.00.

RADIO PROVINCIAS - HOJA s.w./HOJ m.w.

Address: Apartado 826, Chitre. Owner: Fernando Jolly. **Daily Progr.:** 11.00-03.30. (HOJ2, Las Tablas, in parallel.)

ONDA POPULAR - HOH7 s.w./HOF m.w.
Address: Apartado 1795, Panama. Owner: Fernando Eleta A. **Daily Progr.:** W.: 11.00-05.00. Sun.: 13.00. Mo.: 02.00. (HOF2, Colon, in parallel.)

CADENA PANAMENA DE RADIODIFUSION - HP5A s.w./HOC m.w. Address: Apartado 954, Panama.

ONDAS CENTRALES - HPS62 s.w./HOHS m.w.
Address: Santiago. Owner: H. Santacoloma.

RADIO ELEBROCK - HOM51 s.w./HOMP m.w.
Address: Penonome. Owner: Guillermo Elebrock.

YOUR FAMILY STATION - HOLY m.w.
Address: Box 2020, Balboa. **Leading Personalities:** Dir.: Rev. J. A. Doyle C. M. Asst. Dir.: L. C. Paulson.

Progr. Dir.: R. Potter. **Daily Progr.:** 16.00-03.30. **Spanish:** 16.00-21.00. **English:** 21.00-03.30. **Future-Plans:** Increase of Spanish progr. and decrease of English progr.

PUERTO RICO Commercial (exc. WIPR)

kc/s	kW	
580 WKAQ	5	El Mundo Br. Corp., S. Juan
680 WAPA	10	S. Juan
740 WIAC	10	R. Station WIBS Inc., Santurce
860 WNEL	5	Station WNEL Corp., S. Juan
910 WPRP	5	Ponce
940 WIPR	10	Dept. of Education of Puerto Rico, Santurce
990 WPRA	10	WPRA Inc., Mayaguez

+ 17 low power m. w. stations.

EL SALVADOR

All stations commercial exc. YSS. Language Spanish. **Short Waves:**

Call	kc/s	m	kW	m.w.
YSIA	3130	95.84	0.3	YSI R. Intercontinental
YSDR	4800	62.50	1	820kc R. Tropical, Santa Ana
YSWW	5975	50.21	0.25	La Voz del Pueblo,
YSS	6010	49.92	5	650kc R. Nacional, S. Salvad.
YSR	6050	49.59	0.75	990kc La Voz de El Salvador
YSC	6075	49.38	1	1025kc R. Mil Veinticinco
YSP	6150	48.78	0.35	780kc La Voz de Cuscatlan
YSHQ	6170	48.62	0.35	950kc La Voz del Progreso
YSMA	6180	48.54	0.25	YSMM La Voz Suprema de Occidente
YSUA	6188	48.48	0.75	YSU R. Mil Cincuenta, S. S.

Short Waves:

YSO	7315	41.00	1.5	870kc	La Voz de la Democr.
YSF	9250	32.44	1	840kc	R. Vanguardia, S. Slva.
YSL	9540	31.45	0.5	YSLK	S. Salvador en el Aire
YSS	9555	31.40	5	650kc	R. Nacional, S. Salv.
YSG	11767	25.49	1	YSY	R. Victoria, S. Salv.
YSAXA	11945	25.11	1	YSAX	La Voz Panamericana

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
	650	462	10	YSS		990	303	0.5	YSR
	780	385	0.25	YSP		1025	293	1	YSC
YSAX	800	375	1	YSAXA	YSU	1050	285	1	YSUA
	820	366	1	YSDR	YSEB	1075	279	10	*)
	840	357	0.3	YSF	YSI	1100	272	0.3	YSIA
	870	345	1.5	YSO	YSY	1275	235	1	YSG
	950	316	0.35	YSHQ		1500	200	0.3	YSL
					YSMM	1600	187	0.5	YSMA

*) La Voz de Latino América, 5a Calle Poniente No. 9, San Salvador.

RADIO INTERCONTINENTAL - YSIA/YSI

Address: Colonia la Rabida, San Miguelito, S. Salvador. Daily Progr.: 13.00-15.00, 18.00-21.00, 23.00-04.00.

RADIO TROPICAL - YSDR/820 kc/s.

Address: Avenida Independencia, Santa Ana. Daily Progr.: 12.30-14.30, 18.00-04.00 (Sat. 06.00.) Announcement: "YSDR Radio Tropical en Santa Ana, El Salvador, Centro America". Interval-Signal: Gong and xylophone.

LA VOZ DEL PUEBLO - YSWW

Address: 4a Calle Poniente, Santa Ana. Daily Progr.: 13.00-15.00, 18.00-20.00, 00.30-04.00. Verification by QSL-card.

RADIO NACIONAL - YSS/650 kc/s.

Address: Teatre Nacional, San Salvador. Daily Progr.: 18.00-19.00, 00.00-04.00. Interval-Signal: Gong and xylophone.

LA VOZ DE EL SALVADOR - YSR/990 kc/s.

Address: 41a Avenida Norte y Calle Arce, San Salvador. Daily Progr.: 12.00-06.00. Announcement: "Por la Paz y Solidaridad de El Salvador transmite Y.S.R. en la Capital de la Republica en Centro America".

RADIO MIL VEINTICINCO - YSC/1025 kc/s

Address: 14 Avenida Norte No. 29, San Salvador. Daily Progr.: 11.00-06.00. Announcement: "Esta es YSC, Radio 1025, Ondas Populares y Deportivas, en San Salvador, Centro America. Laboramos por la Paz, la Cultura y el Deporte".

LA VOZ DE CUSCATLAN - YSP/780 kc/s

Address: Calle Ruben Dario 46, San Salvador. Daily Progr.: 12.30-05.00.

LA VOZ DEL PROGRESO - YSHQ/950 kc/s

Address: 17 Calle Oriente, San Miguel. Daily Progr.: 16.00-20.00, 23.00-05.00.

LA VOZ SUPREMA DE OCCIDENTE - YSMA/YSMM m.w.

Address: 11 C.P. y 12 Av. Sur, Apartado No. 98, Santa Ana. Daily Progr.: 12.30-20.00, 23.00-04.00. News: 18.00, -19.45, 00.45. Interval-Signal: Motif from "Navidad Blanca".

RADIO MIL CINCUENTA - YUSA/YSU m.w.

Address: Avenida Sur No. 50, San Salvador. Daily Progr.: 12.00-05.00. News: 12.15, 19.30, 04.15. Interval-Signal: Gong. Verification by letter.

LA VOZ DE LA DEMOCRACIA - YSO/870 kc/s

Address: 6a Calle Oriente No. 28, San Salvador. Daily Progr.: 12.00-15.00, 17.00-21.00, 23.00-04.00. Verification by QSL-card.

RADIO VANGUARDIA - YSF/840 kc/s

Address: 7a Calle Oriente No. 62, San Salvador. Daily Progr.: 18.00-20.00, 00.00-04.00. Announcement: "YSF Radio Vanguardia emisora de la juventud desde San Sal-

vador, Centro América". Interval-Signal: "La Leyenda de un Beso".

SAN SALVADOR EN EL AIRE - YSLL/1500 kc/s

Address: 11a Avenida Sur 21, San Salvador. Daily Progr.: 14.00-15.00, 17.00-20.00, 23.00-05.00. Verification by QSL-card.

TRINIDAD

TRINIDAD BROADCASTING CO. LTD: (Commercial)

Address: Broadcasting House, 11B Maraval Road, Port of Spain. Cable: "Broadcast".

Leading Personalities: Man. Dir.: K. T. Murray. Chief Eng.: R. Goodman. Ass. Man.: J. M. Laing. Progr. Dir.: B. Fergus. Sales. Man.: S. Ghany.

HOME SERVICE in English: VP4RD:

790 kc/s 379.7 m 5 kW: 10.00-03.00.

3275 - 91.6 - 0.5 - : 10.00-03.00.

6085 - 49.3 - 0.5 - : 10.00-22.00.

News: 10.45, 11.00(BBC), 12.00, 13.00(BBC), 16.00(BBC), 16.30, 20.00(BBC), 23.45, 02.00(BBC).

"Bringing Christ to the Nations": Mo. 02.15. Caribbean

Review: Sun. 21.15. "Calling the West Indies": Sat. 23.15.

Government Programme: 00.00(exc. Sun.), 02.10(exc. Mo.)

Announcement: "This is VP4RD" or "This is Radio Trinidad". - Verification by QSL-card.

SOUTH AMERICA

ARGENTINA

RADIO DEL ESTADO (Government)

Address: LRA Radio del Estado, Servicio Oficial de Radiodifusion, Ayacucho 1556, Buenos Aires.

Leading Personalities: su S. E. Sr. Ministro de Comunicaciones: don Oscar M. Nicolini. S. S. Sr. Subsecretario de Comunicaciones: don Pedro Gagliardo. Director de Radiodifusion: don Humberto A. Rusi. Subdirector de Radiodifusion: Dr. J. R. Mayo. Jefe del Servicio Oficial de Radiodifusion: don L. A. Quesada. Jefe de la Division Administrativa: don A. M. Pochintesta.

Short Waves: kc/s m kW

LRA 5900 50.85 10†)

LRA 5957.5 50.36 5§)

LRA 6025 49.79 5§)

**LRA1 6062.5 49.49 16§)

*LRA 6180 48.54 10†)

**LRA1 9690 30.96 16/100§)

LRA 11735 25.56 10†)

*) Relay 1370 kc/s. **) relay 870, 710 kc/s. †) Mendoza

§) Buenos Aires.

Medium Waves: (LRA)

kc/s	kW	City	kc/s	kW	City
540	5	Santo Tomé	870	200 (sw)	B. Aires
560	2/1	B. Aires	900	5	Rivadavia
580	3/1	Ushuaia	900	2/1	Gualeguaychu
620	3/1	Esquel	1010	3/1	Posadas
640	5	Santiago del Estero	1080	3/1.5	Corrientes
			1250	1	La Quiaca
670	20/10	S. Rosa	1260	2/1	Santa Fé
690	3	Salta	1270	10	Eva Perón
710	50	Buenos Aires	1310	50	Tucuman
750	50	Córdoba	1360	2/1	Mercedes
780	20/10	Rosario	1370	10 (sw)	Mendoza
780	5	Formosa	1390	10/5	Bahia Blanca

870, 710, 6062, 9690 kc/s and FM in parallel.

FM: LRA7 92 mc/s Buenos Aires relay 870, 710 kc/s.

Daily Programmes in Spanish: 11.00-03.00(Sun. 05.00).

News: (weekdays only): 13.30, 16.30, 23.25, 01.00.

Symphony-Orchestra: Sun. 13.00, Mo. 18.30, Thurs. 18.30.

"Discoteca de Radio del Estado": D.: 15.30 and 24.00.

Announcement: "LRA, LRA1 y LRA7 Radio del Estado de Buenos Aires, Republica Argentina".

Interval-Signal: Programmes open and close with the

Argentina

three first bars of the Argentine National Anthem followed by the traditional dance "la Firmeza".

Verification by QSL-card.

COMMERCIAL STATIONS:

Short Waves:

Call	kc/s	m	kW	m. w.
LRS2	5985	50.13	5	LR4 R. Splendid, Buenos Aires
LRS1	6065	49.46	5	LR4 R. Splendid, Buenos Aires
LRV	6090	49.26	5	LR3 R. Belgrano, Buenos Aires
LRX1	6120	49.02	10	LRX1 El Mundo, Buenos Aires
LRT	6145	48.82	10	LV12 R. Independencia, Tucum.
LRV	9640	31.12	5	LR3 R. Belgrano, Buenos Aires
LRX	9660	31.06	5	LRX R. El Mundo, B. Aires
LRS	9742	30.79	5	LR4 R. Splendid, Buenos Aires
LRV	9760	30.74	5	LR3 R. Belgrano, Buenos Aires
LRT	11840	25.34	10	LV12 Independencia, Tucumán

Medium Waves:

Call	kc/s	m	kW	s. w.
LV1	560	536.0	10/5	R. Colon, San Juan
LV12	580	517.0	5/25	LRT R. Independencia, Tucum.
LV2	620	484.0	10/5	R. Central, Córdoba
LV8	630	476.0	10	R. Libertador, Mendoza
LV6	680	441.0	10/5	De la Red Splendid, Mendoza
LU12	680	441.0	5	R. Rio Gallegos, Gallegos
LU2	780	385.0	20/10	R. Bahia Blanca, Bahia Bl.
LV10	790	380.0	20/15	R. de Cuyo, Mendoza
LV7	820	366.0	5	R. Tucumán, Tucumán
LR4	830	361.0	50	LRS R. Splendid, Buenos Aires
LV3	910	330.0	50	R. Córdoba, Córdoba
LU6	910	330	5	R. Atlantica, Mar del Plata
LR3	950	316.0	50	LRV R. Belgrano, Buenos Aires
LV13	960	313.0	5/2	R. San Luis, San Luis
LT8	990	303.0	50	R. Rosario, Rosario
LS10	1030	291.3	10/5	R. Libertad, Buenos Aires
LR1	1070	280.4	50	LRX R. El Mundo, B. Aires
LT5	1080	254	5	R. Chaco, Chaco
LW3	1090	275.2	5/3	De la Red Splendid, Tuc.
LR2	1110	270.3	10/6	R. Argentina, B. Aires
LU5	1130	265.5	5	De la Red Splendid, Neuquen
LU7	1150	260.9	50	R. Gral. San Martin, Bahia Blanca
LT3	1160	258.6	10/5	R. Cerealista, Rosario*)
LT2	1190	252.1	50	De la Red Spl., Rosario
LW1	1230	243.9	50	De la Red Spl., Córdoba
LU3	1240	241.9	10/5	De la Red Spl., Bahia Bl.
LT9	1260	237.0	5	R. Sante Fé, Santa Fé
LR5	1350	222.2	10/5	R. Excelsior, B. Aires

+27 low power m. w. stations less than 5 kW.

RADIO SPLENDID - LRS/LRS1/LRS2/LR4 m. w.

Address: Uruguay 1237, Buenos Aires. **Leading Personalities:** Dir.: Ing. A. C. Devoto. Dir. of Progr.: R. Q. Durand. **Daily Progr.:** 10.30-04.00. **Announcement:** "LR4, Radio Splendid, Buenos Aires, con sus ondas cortas LRS y LRS1, y la Red Argentina de Emisoras Splendid". Verification by letter.

RADIO BELGRANO - LRV/LR3 m. w.

Address: Posadas y Ayacucho, Buenos Aires. **Leading Personalities:** Dir.: A. Galliarde. Dir. of Progr.: J. Mas. **Daily Progr.:** 09.45-04.30. **Announcement:** "LR3 y LRV, Radio Belgrano de Buenos Aires y la Primera Codena Argentina de Radiodifusion". **Interval-Signal:** 4-note signal on vibraphone.



Verification by QSL-card.

RADIO EL MUNDO - LRX/LR1/LR1 m. w.

Address: Maipu 555, Buenos Aires. **Cable:** Radiomundo. **Leading Personality:** Administrator: Dante A. Aloé.

Daily Progr.: LRX/LR1 10.30-04.00 (Sun. 05.00). LRX1: 14.00-17.00, 21.00-03.00.

News: 10.30, 13.05, 15.00, 15.25, 16.00, 16.35, 18.00, 21.00, 22.00, 23.30, 24.00, 02.00, 03.00.

Announcement: in Spanish: "LR1, LRX, LRX1, Radio El Mundo de Buenos Aires con su red azul y blanca de emisoras argentinas". - **Interval-Signal:** 4-note signal on vibraphone. **Verification** by QSL-card. IRC required.

RADIO INDEPENDENCIA - LRT/LV12

Address: Tucumán. **Daily Progr.:** 10.00-17.00, 21.00-02.00. **Verification** by QSL-card.

FOREIGN SERVICE:

SERVICIO INTERNACIONAL RADIOFONICO

ARGENTINO

S.I.R.A. (operated by the "Subsecretaria de Difusion del Ministerio de Relaciones Exteriores").

Address: Belgrano 1841, Buenos Aires.

Leading Personalities: Dir. Gen.: Oscar Landi. Dir. of Progr.: E. Lagorio. Deputy Dir.: E. Paolucci. Chief Editor: J. M. Villone.

Stations: This service may use the following transmitters of "R. del Estado", "R. Splendid" and "R. El Mundo".

Call	kc/s	m	kW	Call	kc/s	m	kW
LRA	9690	30.96	100	LRA	11915	25.18	100
LRA	9712	30.89	100	LRU	15290	19.62	20
LRA	9725	30.85	100	LRA	15345	19.55	100
LRA	11730	25.58	100	LRA	17720	16.93	100
LRS	11880	25.25	50	LRA	17830	16.83	100

DAILY PROGRAMMES:

English: kc/s Beamed to News:

20.00-21.00 11880 Europe 20.02, 20.52

23.00-01.00 15345 E. N. America 23.09, 24.00, 00.52

02.00-05.00 15290 W. N. America 02.05, 03.00, 04.50

International Mail: Sat. 20.15, 23.30, Sun. 03.25.

Mail-Bag: Sun. 20.40, Mo. 00.05, 03.25.

French: 19.00-21.00 15345 kc/s to Europe. **Intern. Mail:** Sat. 19.20. **Mail-Bag:** Sun. 19.20. **News:** 19.02, 20.52.

German: 18.00-19.00 15345 kc/s to Europe. **Intern. Mail:** Wed., Sat. 18.30. **News:** 18.04, 18.52.

Italian: 19.00-20.00 11880 kc/s to Europe. **Mail-Bag:** Sat. 19.35. **News:** 19.04, 19.52.

Portuguese to Brazil and Europe:

14.00-17.00 11880 kc/s. **News:** 14.05, 14.50, 16.50.

23.02-02.00 11880 kc/s. **News:** 23.05, 01.50.

Intern. Mail: Sat. 14.20, 23.20. **Mail-Bag:** Sun. 15.45, Mo. 00.45.

Spanish: kc/s News:

12.00-13.45 15290*)

18.00-20.45 15290*) 18.05, 19.00, 20.35

21.00-23.00 15345*) 21.02, 22.00, 22.52

21.00-23.00 11880§) 21.02, 22.02, 22.52

01.30-06.00 9690*) 02.00, 03.00, 04.00, 05.00, 05.50

*) Latin America. §) Europe.

Intern. Mail: Sat.: 18.20, 21.25. Sun.: 02.25. **Mail-Bag:** Sun.: 18.40, 21.40, Mo.: 04.25.

Announcement: English: "Good Evening everybody! This is SIRA, the Argentine International Broadcasting Service of Buenos Aires, transmitting its daily programme for our English listeners". French: "Ici Buenos Aires, République Argentine. Voici l'émission française du Service Radiophonique International Argentine SIRA: une voix d'Amérique pour le monde". German: "Hier spricht der argentinische Kurzwellensender SIRA, Buenos Aires, in seiner deutschsprachigen Sendung. Eine Stimme Amerikas für die Welt". Portuguese: "Aqui Buenos Aires, Republica Argentina. No ar, a emissao em lingua portuguesa do SIRA, Serviço Internacional Radiofónico Argentino: Uma voz americana pra o mundo". Spanish: "Aqui SIRA Servicio Internacional Radiofónico Argentino presenta...".

Signature-Tune: "La Firmeza". - **Interval-Signal:** Gong (c-d-e-f-f). - **Verification** by QSL-card.



Union Radio (CMCF, COCH) Cuba: Taro famous female interpreters of Cuban songs. In the middle Guillermo Portabales, the producer of the salon-folksong.

Bolivia - Brazil

BOLIVIA

All stations commercial exc. CP5 and CP38

Language: Spanish.

Stations - Short Waves:

Call	kc/s	m	kW	m.w.
CP5	5970	50.26	1	CP4 R. Illimani, La Paz
CP44	6060	49.50	0.1	CP47 R. Popular, Cochabamba
CP18	6070	49.42	0.25	R. El Condor, Oruro
CP15	6120	49.02	1	CP20 R. El Condor, La Paz
CP30	6135	48.90	0.5	R. Electra, Santa Cruz
CP12	6150	48.78	0.3	CP29 R. Fides, La Paz
CP9	6185	48.50	0.5	CP11 R. Amauta, La Paz
CP37	6190	48.47	0.3	R. Oruro, Oruro
CP38	9444	31.77	1	CP27 R. La Cruz del Sur, La Paz
CP24	9466	31.70	0.5	CP35 R. Abaroa, La Paz
CP6	9500	31.58	1	CP4 R. Illimani, La Paz
CP21	9570	31.35	0.35	R. La Plata, Sucre.

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
CP27	730	411	1	CP38	CP4	1020	294	0.25	CP5/CP6
CP35	800	375	0.5	CP24	CP47	1160	259	0.1	CP44
CP20	900	333	0.25	CP15	CP29	1350	222	0.08	CP12
CP11	930	323	0.15	CP9	+ 18 low power m.w. stations				

FM: 103 mc/s 0.03 kW R. La Cruz del Sur, La Paz

RADIO ILLIMANI - CP5 s.w. CP6/CP4 m.w.

Address: Emisora del Estado, Indaburo 212, La Paz.

Daily Progr.: 11.30-13.00, 15.00-17.00, 21.30-03.00.

RADIO POPULAR - CP44/CP47 m.w.

Address: Esteban Arze 158, Cochabamba. Daily Progr.: 12.00-13.00, 16.00-18.00, 23.00-03.00.

RADIO EL CONDOR - CP18 s.w.

Address: La Plata 1139, Oruro. Daily Progr.: 11.00-14.00, 16.00-18.00, 22.00-03.00. Verification by QSL-card.

RADIO EL CONDOR - CP15/CP20 m.w.

Address: Av. Camacho, Edificio, La Paz. Daily Progr.: 11.00-14.00, 16.00-18.00, 22.00-03.00. Verification by QSL-card.

RADIO ELECTRA - CP30 s.w.

Address: Correo Central, Santa Cruz.

Daily Progr. 16.15-17.30, 21.30-02.00.

RADIO FIDES - CP12/CP29 m.w.

Address: Jenaro Sanjinés, La Paz.

Daily Progr.: 16.00-17.30, 22.00-02.15.

RADIO AMAUTA - CP9/CP11 m.w.

Address: Comercio 386, La Paz.

Daily Progr.: 11.15-13.00, 23.00-03.00.

RADIO ORURO - CP37 s.w.

Address: Casilla 114, Oruro.

RADIO LA CRUZ DEL SUR - CP38/CP27 m.w.

Address: Cajón 8, La Paz. The station is owned and operated by the Canadian Baptist-Mission in Bolivia.

Leading Personality: Dir.: A. B. Wormald. Daily Progr.: W.: 10.55-12.30, 14.30-17.45, 22.55-02.30. Sun.: 11.55-13.30, 16.00-20.15. News (W. only): 12.00, 23.30, 00.30.

Interval-Signal: Signs on and off with "Onward Christian Soldiers". Verification by QSL-card.

RADIO ABAROA - CP24/CP35 m.w.

Address: Potosi 73, La Paz. Daily Progr.: 11.00-13.00, 15.00-17.00, 21.30-03.00.

RADIO LA PLATA - CP21 s.w.

Address: 25 de Mayo 41, Sucre. Daily Progr.: 13.00-14.00, 20.30-22.00, 00.30-02.00.

BRAZIL

All stations commercial exc. R. Ministerio de Educacao.

R. Ministerio de Agricultura, Agencia Nacional.

Language: Portuguese exc. where indicated.

Stations - Short Waves:

Call	kc/s	m	kW	m.w.
ZYV30	2340	128.2	0.5	R. Difusora Brasileira
	2360	127	1	PRH5 R. Cultura de Pocos de Caldas.
ZYR60	2480	121	0.5	PRD4 R. Cultura de Araraqu.

Call kc/s m kW m.w.

ZYR62	3255	92.17	1		R. Clube de Marilia
ZYK21	3265	91.87	1	ZYK20	R. Tamandare, Recife
ZYR31	3275	91.60	1	PRG8	Bauru Radio Clube
ZYJ21	3325	90.23	1	ZYO7	R. Borborema
ZYR59	3335	89.95	1		A Voz do Sertao
ZYN22	3345	89.68	1	ZYN20	R. Cultura da Bahia
	3944	76.05	1		R. Universidade Rio Grande Sul, Porto Alegre
ZYY3	4755	63.10	1		R. Brazil, Campinas
ZYM8	4785	62.70	0.5		R. Ribamar, Sao Luiz
ZYS8	4805	62.43	5		R. Difusora do Amazo.
ZYE7	4825	62.18	0.5	PRJ4	R. Educadora de Par-naiba
	4835	62.05	1		R. Soc. Triangulo Mineiro
ZYU8	4845	61.92	0.5	ZYQ3	R. Difusora de Teresina
ZYR61	4855	61.79	1		R. Difusora de Taubaté
	4865	61.66	2	PRC5	R. Clube do Pará, Belém
PRF6	4895	61.29	5		R. Baré, Manaus
ZYZ20	4905	61.16	5	ZYZ21	R. Relogio Federal
ZYI21	4935	60.80	1	ZYB5	R. Poti, Natal
ZYY9	4975	60.30	2.5	PRJ9	R. Timbiras
ZYZ5	4985	60.19	0.5	PRH3	A Voz do Oeste
ZYY2	4995	60.06	1	ZYX9	R. Brasil Central
ZYY20	4995	60.06	1		R. Difusora do Guapore
ZYP23	5045	59.46	5	ZYP30	R. Quitandinha
	5955	50.37	50		R. Nacional Sao Paulo
PRK5	6000	50.00	5	PRI3	R. Inconfidencia
	6015	49.88	10	PRA8	R. Clube de Pernambuco
ZYR63	6025	49.79	50	PRE6	R. Emiss. de Piratininga
	6035	49.71		PRA3	R. Clube do Brasil
PRB21	6055	49.55	7.5	PRH7	R. Panamericana
	6065	49.46	7.5		R. Ministerio da Agricultura, Rio de Janeiro
ZYK2	6085	49.30	64	PRL6	R. Jornal do Comercio
ZYB7	6095	49.22	25	PRF3	R. Difusora Sao Paulo
ZYN6	6105	49.14	5	PRE9	Ceara Radio Clube
	6125	48.98	50	PRG9	R. Excelsior Sao Paulo
PRC21	6135	48.90	7.5	PRC2	R. Gaucha
PRL9	6147	48.80	50	PRE8	R. Nacional
	6165	48.66	7.5	PRE4	R. Cultura
ZYR77	6185	48.50		PRH9	R. Bandeirantes
PRD21	6195	48.43	20	PRD8	Emissora Continental
PSL	7935	37.81	1.5		Agencia Nacional
PRN9	9290	32.28	5		A Voz da Policia Federal
PRB22	9505	31.56	7.5	PRB9	R. Record
	9505	31.56	50		R. Nacional
	9545	31.43	50		R. Nacional Sao Paulo
ZYK3	9565	31.37	64	PRL6	R. Jornal do Comercio
	9575	31.33	20	PRA9	R. Mayrink Veiga Rio de Janeiro
	9585	31.30	50	PRG9	R. Excelsior, Sao Paulo
	9595	31.27	20	ZYN20	R. Cultura da Bahia
ZYC8	9610	31.22	25	PRB7	R. Tamoio
ZYR64	9635	31.14	50	PRE6	R. Emissora de Piratininga
ZYV40	9645	31.10	7.5	PRH5	R. Cultura de Pocos de Caldas
PRC22	9675	31.01	7.5	PRC2	R. Gaucha
PRL7	9720	30.86	50	PRE8	R. Nacional
ZYR57	9745	30.78	7.5	PRE4	R. Cultura
PRL4	9770	30.70	1	PRA2	R. Ministerio de Educacao
PSH	10220	29.35	1.5		Agencia Nacional
PRL8	11720	25.60	50	PRE8	R. Nacional, Rio de Jan.
PRD22	11735	25.56	20	PRD2	R. Cruzeiro do Sul
ZYR65	11745	25.54	50	PRE6	R. Emiss. de Piratininga
ZYB8	11765	25.50	25	PRG2	R. Tupi, Sao Paulo
	11775	25.48	20	PRA9	R. Mayrink Veiga Rio de Janeiro
	11795	25.43		PRA3	R. Clube do Brasil
	11805	25.41	50	PRG9	R. Excelsior, Sao Paulo
ZYK32	11825	25.37	64	PRL6	R. Jornal do Comercio

Call	kc/s	m	kW	m.w.	Call	kc/s	m	kW	m.w.
PRC23	11865	25.28	7.5	PRC2	R. Gaucha				
ZYR78	11925	25.17		PRH9	R. Bandeirantes				
PRL5	11950	25.10	1	PRA2	R. Ministerio de Educa.				
PSF	14690	20.42	1.5		Agencia Nacional				
PRC24	15115	19.85	7.5	PRC2	R. Gaucha				
PRB23	15135	19.82	7	PRH7	R. Panamericana				
ZYK33	15145	19.81	64	PRL6	R. Jornal do Comercio				
ZYB9	15155	19.80	7.5	PRF3	R. Difusora de Sao Paulo				
ZYN7	15165	19.77	5	PRE9	Ceara Radio Clube				
PRK9	15190	19.75	5	PRI3	R. Inconfidencia				
	15265	19.66	50	PRG9	R. Excelsior, Sao Paulo				
ZYC9	15370	19.52	25	PRG3	R. Tupi, Rio de Janeiro				
PRD23	15415	19.47	20	PRD8	Emissora Continental				
	15525	19.32	20	ZYN20	R. Cultura da Bahia				
PRL9	17850	16.80	50	PRE8	R. Nacional				

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
ZYZ22	550	546	50	1)	PRF7	1110	270	5	13)
ZYM5	560	536	10	2)	PRI4	1110	270	10	14)
ZYA8	590	509	1	ZYR61	PRH8	1130	266	10	15)
PRH2	600	500	50	3)	PRI9	1160	259	10	16)
PRH7	620	484	5	PRB21	PRF5	1160	259	5	17)
PRF9	640	469	5	4)	PRE	1180	254	10	18)
ZYD7	680	441	5	5)	PRE9	1200	250	10	ZYN6
PRC2	680	441	5	PRC21	PRE6	1200	250	5	ZYR63
PRC7	690	435	6)		PRG8	1210	248	1	ZYR31
PRA8	720	417	25	PRA8	PRA9	1220	246	50	9575 kc
PRA4	740	405	50	7)	PRA5	1260	238	10	19)
PRL6	780	384	20	ZYK3	ZYX9	1270	236	10	ZYY2
ZYZ30	780	384		ZYP23	ZYB5	1270	236	5	ZYI21
PRA2	800	375	25	PRL4	PRG3	1280	234	50	ZYC9
ZYD8	840	357	10	8)	ZYR7	1300	231	10	20)
PRH9	840	357	10	ZYR77	PRE4	1300	231	10	ZYR57
PRA3	860	349	50	6035 kc	PRH6	1340	224	10	21)
PRI3	880	341	50	PRK5	ZYO7	1350	223	1	ZYJ21
ZYK20	890	337	20	ZYK21	PRH5	1350	223	5	ZYV40
PRA6	890	337	5	9)	PRC8	1360	221	10	22)
PRB7	900	333	10	ZYC8	PRD4	1370	219	1	ZYR60
PRF4	940	319	10	10)	ZYQ3	1370	219	0.5	ZYU8
ZYC4	960	313	10	11)	PRD5	1400	214	10	23)
PRF3	960	313	10	12)	PRE7	1410	213	5	24)
PRE8	980	306	50	PRL7	PRE2	1430	210	5	25)
PRB9	1000	300	50	PRB22	PRB2	1440	208	10	26)
PRD8	1030	291	5	PRD21	ZYN20	1440	208	5/10	ZYN22
PRG2	1040	288	50	ZYB8	PRC5	1450	207	5	4865 kc
PRD2	1060	283	10	PRD22	PRJ4	1470	204	0.5	ZYE7
PRG9	1100	273	50		PRJ9	1490	201	5	ZYY9
					ZYZ21	1490	201	1	ZYZ20

1) R. Eldorado, Rio de Janeiro. 2) R. Guairaca, Curitiba. 3) R. Farroupilha, Porto Alegre. 4) R. Difusora Porto Alegre, Porto Alegre. 5) R. Sociedad Norte del Minas, Montes Claros. 6) R. Mineira, Belo Horizonte. 7) R. Sociedade da Bahia, Salvador. 8) R. Excelsior da Bahia, Salvador. 9) R. Gazeta, Sao Paulo. 10) R. Jornal de Brasil, Rio de Janeiro. 11) R. Emissora Alagoana, Maceio. 12) R. Difusora Sao Paulo, Sao Paulo. 13) R. Cultura, Campos. 14) R. Tabajaras, Joao Pessoa. 15) R. Maua, Rio de Janeiro. 16) R. Clube de Espirito Santo, Vitoria. 17) R. Cariiri, Campina Grande. 18) R. Globe, Rio de Janeiro. 19) R. Sao Paulo, Sao Paulo. 20) R. Iracema, Fortaleza. 21) R. Guarani, Belo Horizonte. 22) R. Guanabara, Rio de Janeiro. 23) R. Roquette Pinto, Rio de Janeiro. 24) R. America, Sao Paulo. 25) R. Vera Cruz, Rio de Janeiro. 26) R. Clube Paranaense, Curitiba.

FM:

33.3	mc/s	0.25	kW	R. Bandeirantes, Sao Paulo
96.1	-	0.25	-	R. Bandeirantes, Sao Paulo
97.3	-	0.25	-	R. Cultura de Araraquara, Sao Paulo
98.3	-	0.25	-	R. Difusora Taubaté, Taubaté
100.1	-	0.25	-	R. Cultura da Bahia, Salvador
100.5	-	3	-	R. Nacional, Rio de Janeiro
101.3	-	0.25	-	R. Cultura da Bahia, Salvador
105.3	-	0.25	-	R. Nacional, Rio de Janeiro

RADIODIFUSORA BRASILEIRA - ZYV 30 s.w.

Address: Caixa Postal 173, Uberlandia, Minas Gerais. Daily Progr.: 21.00-02.00. Verification by letter.

RADIO CULTURA DE POCOS DE CALDAS - 2360, ZYV40 s.w./PRH5 m.w.

Address: Praça Pedro Sanches No. 143, Pocos de Caldas, Minas Gerais. Leading Personalities: Pres. Eng. J. Rocha. Dir.: Prof. J. B. Garcia. Dir. Eng. M. R. Rocha. Daily Progr.: 11.00-02.00. News: Every hour on the hour Announcements in Portuguese, English, French, Spanish. Verification by QSL-card or letter.

RADIO CULTURA ARARAQUARA - LTD - ZYR60 s.w./PRD4 m.w./PRD4FM.

Address: Av. Espanha 284, Araraquara, Sao Paulo. Cable: Radio. Leading Personalities: Dir.: Romulo Lupo. Vice-Di.: Rolando Lupo. Manager: J. A. Q. Los Santos. Daily Progr.: 10.00-01.30. Announcement: Emissoras da Radio Cultura Araraquara. Future-Plan: ZYR60 to 1 kW.

RADIO CLUBE DE MARILIA - ZYR62 s.w.

Address: Rua Paes Leme 20, Marilia, Sao Paulo. Daily Progr.: 10.30-02.00.

RADIO TAMANDARE - ZYK21 s.w./ZYK20 m.w.

Address: Praça da Independencia 12, Recife, Pernambuco. Daily Progr.: 09.00-03.00. Verification by QSL-card.

BAURU RADIO CLUBE - ZYR31 s.w./PRG8 m.w.

Address: Rua 1º de Agosto 635, Bauru, Sao Paulo. Daily Progr.: 11.00-14.00, 20.00-02.00. Verification by letter.

RADIO BORBOREMA - ZYJ21/ZYO7 m.w.

Address: Rua Cardoso Vieira 36, Campina Grande. Daily Progr.: 21.00-01.00.

A VOZ DO SERTAO - ZYR59 s.w.

Address: Caixa Postal 5, Pres. Prudente, Sao Paulo. Daily Progr.: 11.00-02.00.

RADIO CULTURA DA BAHIA - ZYN22, 9595, 15525 s.w./ZYN20 m.w.

Address: Avenida 7 de Setembro Nr. 311, Salvador Bahia. Leading Personalities: Pres. Eng.: M. R. Rocha. Dir. Eng.: J. R. Rocha. Daily Progr.: 11.00-03.00. News: Every hour on the hour. Announcement: "ZYN20 e ZYN22, pertencentes a RADIO CULTURA DA BAHIA, da rede bahiana de emissoras, irradiando em cadeia para todo o Brasil, em ondas médias, intermediárias, curtas e em F.M.". Verification by QSL-card.

RADIO BRASIL - ZYY3 s.w.

Address: Caixa Postal 625, Campinas, Sao Paulo. Daily Progr.: 11.00-03.00. Verification by letter.

RADIO RIBAMAR - ZYM8 s.w.

Address: Caixa Postal 48, Sao Luiz, Maranhao. Daily Progr.: 21.00-01.00.

RADIODIFUSORA DO AMAZONAS - ZYS8 s.w.

Address: Rua Joaquim Sarmiento 100, Manaus, Amazonas. Daily Progr.: 10.00-17.00, 21.00-03.00.

RADIO EDUCADORA DE PARNAIBA - ZYE7 s.w./PRJ4 m.w.

Address: Caixa Postal 31, Parnaiba, Piaui. Daily Progr.: 14.00-16.00, 20.30-01.00. Verification by letter.

RADIODIFUSORA TERESINA - ZYU8 s.w./ZYQ3

Address: Aerolino de Abreu 1157, Teresina, Piaui. Daily Progr.: 20.55-02.00.

RADIODIFUSORA TAUBATE - ZYR61 s.w./ZYA8 m.w.

Address: Taubate, Sao Paulo. Leading Personalities: President: A. Guisard. Dir. Gen.: E. A. Baringho. Chief Eng. B. M. Pereira. Commercial Dir.: E. A. Berrings Jr. Daily Progr.: 11.00-03.00.

RADIOCLUBE DO PARA - 4865 s.w./PRC5 m.w.

Address: Edificio Bern, Belem, Pará. Daily Progr.: 21.00-01.30. Signature-Tune: "Poem" by Feibich. Verification by QSL-card.

RADIO BARE - PRF6 s.w.

Address: Av. Eduardo Ribeiro 586, Manaus, Amazonas. Daily Progr.: 21.00-02.00.

RADIO RELOGIO FEDERAL - ZYZ20/ZYZ21 m.w.

Address: Caixa Postal 4543, Rio de Janeiro, Distrito Federal. Standard Time Service: Broadcasts short com-

Brazil

mercial advertisements, weather forecasts and give the exact time each minute in Portuguese. Verification by letter. IRC required.

RADIO POTI - ZYI21 s.w./ZYB5 m.w.

Address: Av. Deodore 245, Natal, Rio Grande do Norte. Daily Progr.: 21.00-01.00. Verification by letter.

RADIO TIMBIRAS - ZYY9 s.w./PRJ9 m.w.

Address: Edifício da Imprensa Oficial, São Luiz, Maranhão. Daily Progr.: 11.00-01.00.

A VOZ DO OESTE - ZYZ5 s.w./PRH3 m.w.

Address: Rua Barão do Melgaco 484, Cuiabá, Mato Grosso. D. Pr.: 12.00-13.00, 15.00-18.00, 21.00-01.00.

RADIO BRAZIL CENTRAL - ZYY2 s.w./ZYX9 m.w.

Address: Caixa Postal 330, Goiânia, Goiás. Cable: "Erre-bece". Leading Personalities: Dir. Gen.: W. C. Quinta. Dir. of News: H. Mesquita. Dir. of Progr.: L. C. P. Neto. Daily Progr.: 11.00-22.30, 23.00-02.00. Mo.: 02.00-02.30.

"World at your Home" (News in English, Spanish, Portuguese). Verification by QSL-card or letter. Future-Plans: Two 5 kW s.w. transmitters 25 and 31 m.b. under construction: ZYY2 5 kW.

RADIODIFUSORA DO GUAPORÉ - ZYY20 s.w.

Address: Casa do Rádio, Porto Velho, Território Federal do Guaporé. Daily Progr.: 12.00-13.30, 15.00-17.30, 21.30-02.30. Interval-Signal: Gong. Verification by QSL-card or letter.

RADIO QUITANDINHA - ZYP23 s.w./ZYP30 m.w.

Address: Caixa Postal 5292, Rio de Janeiro. Daily Progr.: On ZYP23: 11.00-16.00, 20.00-03.00. On ZYP30: 11.00-03.00. Interval-Signal: Gong. Signature-Tune: "Aquarelas no Brasil". Verification by QSL-card.

RADIO NACIONAL, São Paulo. 5955, 9545 s.w.

Address: Rua 24 de Maio 208, 13° and., s/24, São Paulo. Short waves not yet in operation.

RADIO INCONFIDÊNCIA - PRK5, PRK9 s.w./PRI3

Address: Caixa Postal 1027, Belo Horizonte, Minas Gerais. Daily Progr.: 10.00-03.00. Verification by QSL-card.

RADIO CLUBE DE PERNAMBUCO - 6015 s.w./PRA8 m.w.

Address: Av. Cruz Cabuga 394, Recife, Pernambuco. Daily Progr.: 08.55-02.00. Verification by QSL-card.

RADIO EMISSORA DE PIRATININGA - ZYR63, ZYR64, ZYR65 s.w./PRE6 m.w.

Address: Praça Patriarca 26, 3° and., São Paulo.

RADIO PANAMERICANA - PRB21, PRB23 s.w./PRH

Address: Rua Riachulo 275, 14° and., São Paulo. Daily Progr.: 09.00-03.00. Verification by QSL-card.

RADIO JORNAL DO COMMERCE - ZYK2, ZYK3, ZYK32, ZYK33 s.w./PRL6 m.w.

Address: Rua Marques do Recife S/N Recife. Cable: "Radiocommercio". Leading Personality: Dir. Gen.: Dr. F. Pessoa de Queiroz. Daily Progr.: 780 kc/s: 08.55-03.00.

9565 kc/s: 10.00-16.05, 18.00-02.20. 11825 kc/s: 21.00-02.20. 15145 kc/s: 10.00-18.00. News: 10.00-10.15, 11.00-11.05, 15.30-15.45, 16.00-16.05, 21.00-21.15, 22.25-22.30, 01.30-01.35, 02.00-02.20. English: "Brazil Calling" for America and Europe: 01.05-01.30 on 9565 kc/s. During Brazilian summertime 1.12-31.3 all above programmes are broadcast 1 hour earlier. Announcement: Portuguese "Pernambuco Falandopara o Mundo. Radio Jornal do Comercio, Recife, Pernambuco, Brazil". English: "Pernambuco Speaking to the World. This is 'Brazil Calling'". Interval-Signal: Some bars of the Pernambuco Anthem. Verification by QSL-card. Return postage required.

RADIO DIFUSORA SAO PAULO - ZYB7, ZYB9 s.w./PRF3 m.w.

Address: Rua 7 de Abril 230, 7° and., São Paulo. Daily Progr.: 10.00-04.00. Verification by QSL-card.

CEARA RADIO CLUBE - ZYN6, ZYN7 s.w./PRE9 m.w.

Address: Caixa Postal 222, Fortaleza. Daily Progr.: 14.00-16.00, 19.00-21.00 (Mo.-Fri.), 21.00-02.00. English: 19.00-21.00 on ZYN7. Verification by letter.

RADIO EXCELSIOR, São Paulo. 6125/PRG9 m.w.

Address: Rue 24 de Maio, 13° and., s/24, São Paulo. s.w. not yet in operation.

RADIO GAUCHA - PRC21, PRC22, PRC23, PRC24 s.w./PRC2 m.w.

Address: Avenida Borges de Medeiros, Edifício Uniao, 119° and., Porto Alegre, Rio Grande do Sul. Daily Progr.: 10.00-03.00, 20.00-05.00 (Progr. on 6135 kc/s at 03 00-05.00 dedicated to foreign listeners). Verification by QSL-card.

RADIO NACIONAL, Rio de Janeiro - PRL7, PRL8, PRL9 s.w./PRE8 m.w.

Address: Praça Maua, 7-20° andar, Rio de Janeiro. Leading Personalities: Dir. Gen.: V. Costa. Administrator: S. Vasconcellos. Dir. of Progr.: P. Tapajos. Chief Eng.: J. Nobrega. Daily Progr.: On 980, 6147 and 9720 kc/s: 08.45-04.10. On 9505, 11720 and 17850 kc/s irregularly. News: 09.45, 11.00, 13.00, 15.55, 20.00, 20.45 (Sun.), 23.25, 01.55, 04.00. Spanish: 20.30 on 9720 kc. Announcement: "Ouwem a R. Nacional de Rio de Janeiro, Brasil, transmitindo através de suas emissoras de ondas curtas, médias e frequência modulada". Interval-Signal: First movement of the Brazilian musical poem: "Luar do Sertão". Verification by QSL-card and letter. Return postage not required. Future-Plans: It is planned to operate two 50 kW s.w.

RADIO BANDEIRANTES - ZYR77, ZYR78 s.w./PRH9 m.w.

Address: Rua Paula Souza 181, 4° and., São Paulo. Leading Personalities: Pres.: J. J. Saad. Dir. Gen.: C. J. Bronu. Secretary General: L. C. dos Santos Werneck. Commercial Dir.: M. P. Leite. Daily Progr.: 840 kc/s: 00.00-24.00. 6185 kc/s: 09.00-16.00, 21.00-05.30. 11925 kc/s: 09.00-16.00, 23.30-05.30. News: Every hour on the hour. Press Review: W.: 02.00-02.30. Announcement: "Radio Bandeirantes de São Paulo, transmitindo simultaneamente pelas suas estações: PRH9 Ondas Médias, 840 kc/s. Frequência modulada, 96 ponto um mc/s e em Ondas Curtas ZYR78, 25 metros, 11.925 kc/s (ou ZYR77, 49 metros, 6185 kc/s)". Verification by QSL-card.

EMISSORA CONTINENTAL, Niterói - PRD21, PRD23 s.w./PRD8 m.w. in parallel with

RADIO CRUZEIRO DO SUL, Rio de Janeiro - PRD22/PRD2 m.w.

AGENCIA NACIONAL - PSL, PSH, PSF s.w.

Address: Ministério da Justiça e Negócios Interiores, Av. Presidente Wilson 164, 8° andar, Rio de Janeiro. Daily Progr.: 12.00-13.00, 18.00-19.00, 21.00-23.00. "A Voz do Brasil" is relayed by all Brazilian stations daily exc. Sun. 21.30-22.00.

A VOZ DA POLICIA FEDERAL - PRN9 s.w.

Address: Rua da Relação S/A, Rio de Janeiro. Daily Progr.: 12.00-13.00, 19.00-20.30 (exc. Sat.), 21.00-22.00, 22.30-02.00. Spanish: 19.30-20.00. Verification by letter.

RADIO RECORD - PRB22 s.w./PRB9 m.w.

Address: Rua do Seminário 199, São Paulo.

Daily Progr.: 09.00-03.00.

RADIO TAMOIO - ZYC8 s.w./PRB7 m.w.

Address: Av. Venezuela 43, 2° and., Rio de Janeiro. Daily Progr.: 09.00-04.00. Verification by QSL-card. Return postage required.

RADIO CULTURA - 6165, ZYR57 s.w./PRE4 m.w.

Address: Avenida São João 1285, São Paulo.

RADIO MINISTERIO DE EDUCACAO - PRL4, PRL5 s.w./PRA2 m.w.

Address: Serviço de Rádio Difusão Educativa, Praça da República 141-A, 3° and., Rio de Janeiro. Daily Progr.: 09.00-12.00, 15.00-02.30. Spanish: 02.00-02.30. Verification by letter.

RADIO TUPI, São Paulo - ZYB8 s.w./PRG2 m.w.

Address: Rua Catalão 48, Sumaré, São Paulo. Daily Progr.: 10.00-04.00. Verification by QSL-card.

RADIO TUPI, Rio de Janeiro - ZYC9 s.w./PRG3 m.w.

Address: Av. Venezuela 43, 3° and., Rio de Janeiro. Daily Progr.: 10.00-03.30. Verification by QSL-card. Return postage required.

CHILE

Language: Spanish. Commercial.

ASOCIACION DE RADIODIFUSORAS DE CHILE

Address: Casilla 359, Santiago. Cable: Archi.

Leading Personality: Pres.: R. Vivado O.

STATIONS: Short Waves:

Abbreviations: Sa.=Santiago. An.=Antofagasta. Concep.=Concepcion. Valpar.=Valparaiso.

Call	kc/s	m	kW	m. w.	
CE8AA	5750	52.18	0.5	CB57	Soc. Nac. de Agricultura, Sa.
CE601	6010	49.92	5	CA127	Emisoras Norte, Ant. B
CE604	6045	49.63	5	CA90	R. Libertad, An.
CE615	6150	48.78	5	CB76	R. Cooperativa Vitalicia, Valpar. B
CE619	6190	48.47	5	CB114	R. Corporacion, Sa.
CE622	6220	48.23	5	CB106	R. Sociedad Nacional de Minería, Sa.
CE766	7660	39.16	1	CB101	R. Yungay, Sa.
CE920	9200	32.60	1	CD111	R. Militar Austral, as CE619
CE950	9500	31.58	5	CB114	R. La Americana, Sa.
CE960	9600	31.25	2.5	CB130	as CE615 B
CE970	9700	30.93	1	CB76	R. Nuevo Mundo, Sa.
CE1174	11740	25.55	5	CB93	as CE8AA A
CE1180	11800	25.42	1	CB57	R. El Mercurio, Sa
CE1185	11850	25.32	2.5	CB138	as CE615 B
CE1190	11900	25.21	5	CB76	as CE622 C
CE1198	11985	25.03	2.5	CB106	as CE619
CE1515	15150	19.80	5	CB114	

Medium Waves:

Call	kc/s	m	kW	s. w.	
CB57	570	527.0	15	CE8AA	R. Sociedad Nacional de Agricultura, Sa.
CB66	660	455.0	12	(FM)	R. Chilena, Sa.
CD69	690	435.0	1.2		R. La Frontera, Temuco
CB73	730	411.0	10	CE615/1190	R. Coop. Vitalicia, Valpar.
CB76	760	395.0	75		R. Coop. Vitalicia, Sa. B
CA90	900	333.3	1	CE604	R. Libertad, An.
CB93	930	323.0	10	CE1174	R. Nuevo Mundo, Sa.
CB101	1010	297.1	1	CE766	R. Yungay, Sa.
CB106	1060	283.0	10	CE622/1198	R. Soc. Nac. de Minería, Sa. C
CD111	1110	270.3	1.25	CE920	R. Militar Austral, Punta Arenas
CB114	1140	263.2	50	CE619/1515	R. Corporacion, Sa.
CC116	1160	258.6	1.5		R. Simón Bolívar, Concep.
CB118	1180	254.2	25		R. Christóbal Colón, Valpar.
CD121	1210	247.9	10		R. Soc. Nac. de Agricultura, Los Angeles A
CA127	1270	236.2	0.25	CE601	Emisoras Norte, Ant. B
CB130	1300	230.8	1	CE960	R. La Americana, Sa.
CB138	1380	217.4	15	CE1185	R. El Mercurio, Sa.

+46 low power m.w. stations.

FM	m. w.	
CE88FM	88.1 mc/s	0.25 CB66 R. Chilena, Santiago
CE92FM	92.1	0.25 CB76 R. Coop. Vitalicia, Santiago

A: SOCIEDAD NACIONAL DE AGRICULTURA y CIA LTDA

Main Office: Augustinas 718, Santiago.

R. Soc. Nacional de Agricultura - CE8AA/CE1180 s.w. - CB57 m.w. Address: Casilla 40 D, Santiago. Cable: "Antena". Leading Personalities: Dir.: A. Echenique F. Dir. of Progr.: J. Ronchetti. Chief of Studios: J. Arenas K. Techn. Dir.: Ing. P. Ciccone. Daily Progr.: 11.00-04.00. News: 11.30, 12.30, 16.45, 17.30, 00.30, 02.30, 03.45.

CB90 m.w.: Casilla 90, Valparaíso, 11.00-04.00.

CD121: Casilla 327, Los Angeles, 11.00-04.00.

Verification by QSL-card.

B: CIA CHILENA DE COMUNICACIONES SA

Main Office: Bandera 236, piso 8º, Santiago.

Emisoras Norte - CE601 s.w./CA127 m.w.

Address: Casilla 708, Antofagasta. Leading Personality: Dir.: E. Torrenz. Daily Progr.: 11.30-04.00. News: 11.30, 17.00, 01.00, 04.00.

R. Cooperativa Vitalicia

CE615/CE1190 (CE 970) s.w. - CB73 m.w. - CE92 FM.

Address: Casilla 1627, Valparaíso. Leading Personality: Dir.: L. Falcone. Daily Progr.: 11.30-04.00. News: 11.30, 17.00, 01.00, 04.00. Verification by letter.

C: SOCIEDAD CHILENA RADIODIFUSORAS SA

Main Office: Moneda 973, piso 3º, Santiago.

Soc. Nac. de Minería - CE622/CE1198 s.w. - CB106 m.w.

Address: Casilla 2626, Santiago. Cable: "Radio Minería". Leading Personalities: Dir.: E. Sanchez Matte. Chief of Progr.: R. Matas E. Chief Eng.: Manuel del Castillo. Daily Progr.: 11.30-04.00. News: 11.30, 12.30, 16.45, 17.30, 00.30, 01.00, 02.30, 04.00. Announcement: "Santiago de Chile Radio Sociedad Nacional de Minería". Interval-Signal: Gong. Verification by QSL-card.

R. Metro (Minería) - CB68 m.w. Address: Casilla 337, Vina del Mar. Daily Progr.: 11.30-04.00.

R. La Serena - CA 108 m.w. Address: Casilla 118, La Serena. Daily Progr.: 12.00-03.00.

RADIO LIBERTAD - CE 604 s.w./CA90 (m.w.)

Address: Casilla 457, Antofagasta. Leading Personality: Dir.: A. Cajiao. Daily Progr. 11.00-04.00.

RADIO CORPORACION CHILENA DE BROADCASTING SA CE619/CE1515 (CE950) s.w. - CB114 m.w.

Address: Casilla de Correos No. 244 V., Santiago. Cable: "Cientocatorce". Leading Personalities: Dir.: J. E. Pacull. Dir. of Progr.: R. Deformes. Chief Eng.: A. Pamisello. Adminstr.: R. Munoz. Daily Progr.: 11.25-04.00. News: 12.00-12.30, 17.00-17.10, 18.30-18.35, 03.00-03.15. Programmes in English, French, German, Italian or Swedish: 22.00-22.30 (alternately). Announcement: "Transmite CB-114 Radio Corporación de Santiago-Chile, con sus ondas cortas en 19 y 49 metros".

RADIO YUNGAY - CE766 s.w./CB101 m.w.

Address: Huerfanos 930, Santiago. Leading Personalities: Tech. Directors: O. Franchino R. and H. Beweis A. Directors of Progr.: M. A. Yanez and P. Fiori. Daily Progr.: 11.30-06.30. News: 12.30, 13.00, 18.00-18.30, 23.05, 03.55. Announcement: "CB101 y CE766 Estaciones de Radio Yungay de la Corporacion Chilena de Radiodifusion Ltda., Santiago de Chile". Interval-Signal: First movement of the song "Donde el Azul de la Noche encuentra el Ovo del Dia".

RADIO MILITAR AUSTRAL - CE920/CD111 m.w.

Address: Casilla 206, Punta Arenas. Daily Progr.: 15.30-03.00.

RADIO LA AMERICANA - CE960/CB130 m.w.

Address: Nueva York 53, piso 7º, Santiago. Leading Personality: Dir.: H. González. Daily Progr.: 11.00-05.00. Interval-Signal: Gong (notes from the melody "Los Copihues Rojos"). Verification by QSL-card.

RADIO NUEVO MUNDO - CE1174/CB93.

Address: Alameda 924, piso 7º, Santiago. Leading Personality: Dir.: J. Raggio. Daily Progr.: 11.25-05.00.

RADIO EL MERCURIO - CE1185/CB138 m.w.

Address: Plaza Bulnes 47, piso 8º, Santiago. Leading Personality: Dir.: R. Fernández. Daily Progr. 12.00-04.00.

RADIO CHILENA - CE 88FM/CB66 m.w.

Address: Huerfanos 1179, Santiago. Leading Personality: Dir.: M. L. Montt. Daily Progr. 11.25-04.00.

COLOMBIA

Language: Spanish. All stations commercial exc. Radio Nacional, HJDU.

Colombia

Stations: Short Waves.

Call	kc/s	m	kW	m.w.	
HJTB	4745	63.27	10	HJKA	R. Militar de Colombia, Bogota
HJEF	4768	62.96	3	HJEL	Radiodifusora de Occidente, Cali
HJAB	4783	62.70	2.5	HJAN	Emis. Unidas, Barranquilla 11.00-04.00
HJFU	4797	62.57	0.5	HJFG	Voz del Comercio, Arm.
HJDU	4805	62.43	0.5	HJDV	Universidad de Medellin, Medellin. 11.00-03.00
HJBB	4815	62.31	0.75	HJBC	Voz de Cucuta, Cucuta. 12.00-04.00.
HJED	4825	62.18	1	HJEB	Voz del Valle, Cali
HJKE	4835	62.05	2.5	HJCS	R. Continental, Bogota
HJGF	4847	61.92	2.5	HJGE	R. Bucaramanga, Bucar.
HJFV	4855	61.79	0.5	HJFP	R. Neiva, Neiva 13.00-03.30
HJFA	4865	61.66	1	HJFE	Voz de Pereira, Pereira
HJBG	4870	61.60	2.5	HJBF	Voz del Norte, Cucuta. 13.00-03.30
HJFH	4875	61.54	1	HJFM	Voz de Armenia, Armen.
HJCH	4895	61.29	2	HJCI	Voz de la Victor, Bogota
HJAG	4905	61.23	1	HJAH	Emis. Atlantica, Barranquilla
HJEQ	4915	61.04	0.5	HJEG	Voz de Cauca, Popayan
HJFR	4935	60.80	1	HJFL	Ondas del Ibaque, Ibaque
HJCW	4945	60.66	1	HJCO	Emis. Sur America, Bog.
HJAP	4948	60.63	1	HJAR	R. Colonial, Cartagena
HJCQ	4955	60.55	1	HJCR	R. Nacional, Bogota
HJAE	4965	60.42	1	HJAF	Emis. Fuentes, Cartagena
HJFW	5020	59.76	1	HJFJ	Emisora Caldas, Manizales. 13.00-05.00
HJDW	5050	59.41	5	HJDB	Voz de Medellin, Medell.
HJKH	5070	59.20	1	HJKI	Accion Cultural Popular, Sutatenza
HJCF	5964	50.28	1	HJCE	Voz de Bogota, Bogota
HJKD	6000	50.00	10	HJKC	Emis. Nuevo Mundo, Bogota
HJFC	6010	49.92	1	HJFM	La Voz Armenia, Armen.
HJCX	6018	49.84	5	HJCZ	Voz de Colombia, Bogot.
HJEX	6055	49.55	10	HJER	R. Pacifico, Cali
HJFK	6100	49.18	2.5	HJFF	La Voz Amiga, Pereira
HJFD	6105	49.14	6	HJFB	R. Manizales, Manizales
HJEV	6135	48.90	1	HJEB	Voz del Valle, Cali
HJDE	6145	48.82	5	HJDK	Voz de Antioquia, Medel.
HJKJ	6160	48.70	10	HJKL	Emis. Nueva Granada, Bogota
HJCT	6190	48.47	10	HJCR	R. Nacional, Bogota
HJEZ	6195	48.43	1	HJEE	Voz de Cali, Cali
HJKF	9520	31.51	10	HJKC	Emisora Nuevo Mundo, Bogota
HJCQ	11680	25.68	3	HJCR	R. Nacional, Bogota

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
HJFB	620	484	25	HJFD	HJFJ	1050	286	1	HJFW
HJCZ	710	422	10	HJCX	HJAH	1050	286	1	HJAG
HJAN	730	411	10	HJAB	HJFM	1080	278	1	HJFC
HJKM	740	405	10	*)	HJEE	1090	275	1	HJEZ
HJDK	770	390	10	HJDE	HJFB	1120	268	1	HJFD
HJKA	800	375	5	HJTB	HJGE	1130	265	1	HJGF
HJKC	830	361	10	HJKD	HJEB	1150	261	1	HJED
HJCE	860	349	10	HJCF	HJCO	1160	258	1	HJCW
HJCI	890	337	10	HJCH	HJFF	1170	256	1	HJFK
HJCS	920	326	10	HJKE	HJCR	1200	250	5	HJCQ
HJAF	930	323	10	HJAE	HJEL	1210	249	5	HJEF
HJKL	950	316	10	HJKJ	HJFP	1240	242	1	HJFV
HJDB	980	306	10	HJDW	HJFG	1250	240	1	HJFU
HJER	1030	291	1	HJEX	HJBC	1270	236	1	HJBB
HJFE	1330	226	1	HJFA	HJFL	1440	208	1	HJFR
HJBF	1350	222	1	HJBG	HJKI	1580	190	1	HJKH
HJAR	1400	214	0.75	HJAR					

*) Radio Christobal Colón, Bogota.

+49 low power m.w. stations.

110

FM (Commercial exc. 102.0 Cultural):

88.5	mc/s	0.25	kW	R. Nueva Granada, Bogota
88.5	-	0.25	-	Emisora Nueva Granada, Bogota
95.0	-	0.25	-	La Voz de Antioquia, Medellin
96.0	-	0.25	-	R. Bucaramanga, Bucaramanga
97.0	-	0.25	-	La Voz de Colombia, Bogota
98.0	-	0.25	-	Voz de Medellin, Medellin
99.5	-	1	-	R. Manizales, Manizales
101.0	-	0.25	-	R. Nutibara, Medellin
102.0	-	0.25	-	Radiodifusora Nacional, Bogota
105.5	-	0.25	-	Voz de Medellin, Medellin
106.5	-	0.25	-	R. Santander, Bucaramanga
106.7	-	0.25	-	R. Pacifico, Cali
107.5	-	0.25	-	Voz de Pereira, Pereira
108.5	-	0.25	-	R. Nueva Granada, Bogota

LA VOZ DEL COMMERCE - HJFU/HJFG m.w.

Address: P.O.B. 324, Barranquilla. Cable: "Emisunidas". Daily Progr.: 13.00-04.00.

LA VOZ DEL VALLE - HJED HJEV/HJEB m.w.

Address: Calle 11 No. 4-52, Cali. Daily Progr.: 13 00-03.00.

RADIO CONTINENTAL - HJKE/HJCS m.w.

Address: Radiodifusion Colombiana S.A. Bogota. Daily Progr.: 13.00-02.30.

RADIO BUCARAMANGA - HJGF/HJGE m.w.

Address: Apt. 312, Bogota. Daily Progr.: 13.00-19.00. 21.30-04.00. Verification by letter.

LA VOZ DE PEREIRA - HJFA/HJFE m.w.

Address: R. Cadena Nacional, Pereira. Leading Personality: Dir. J. O. Parra. Daily Progr.: 12.30-04.30. Verification by letter.

LA VOZ DE ARMENIA - HJFH HJFC/HJFM m.w.

Daily Progr.: 13.00-04.00.

LA VOZ DE LA VICTOR - HJCH/HJCI m.w.

Address: Apt. 565, Bogota. Daily Progr.: 13.00-04.00.

EMISORA ATLANTICA - HJAG/HJAH m.w.

Address: Calle 34 No. 43-146, Apt. 174, Barranquilla. Cable: "Emisatlan". Leading Personalities: Dir.: M. A. Blanco. Administrator: I. T. Noguera. Chief Eng.: J. de la Cruz. Daily Progr.: 12.00-04.00.

EMISORA SUR AMERICA - HJCW/HJCO m.w.

Address: Correo 8a No. 12-23, Bogota. Daily Progr.: 12.00-16.15, 21.00-04.00. Announcements in English and Spanish. Verification by QSL-card.

RADIO COLONIAL - HJAP/HJAR m.w.

Address: Calle del Porvenir, Cartagena. Daily Progr.: 12.30-19.00, 22.00-04.00.

RADIO NACIONAL - HJCQ s.w., HJCT/HJCR m.w.

Address: Ministerio de Education, Bogota. Daily Progr.: W.: 15.00-19.00, 22.00-04.15. Sun.: 15.30-20.15, 23.15-04.15. Verification by QSL-card.

EMISORA FUENTES - HJAE/HJAF m.w.

Daily Progr.: 12.00-03.00 (Sun. 05.30).

LA VOZ DE MEDELLIN - HJDW/HJDB m.w.

Address: Radio Cadena Nacional, Medellin. Leading Personality: Dir.: A. Moreno. Daily Progr.: 12.00-04.30. Verification by letter.

ACCION CULTURAL POPULAR - HJKH/HJKI m.w.

Daily Progr.: 13.00-04.00 English to Australia and N. Zealand Sat. 10.30-11.00

LA VOZ DE BOGOTA - HJCF/HJCE m.w.

Address: Apt. 312, Bogota. Daily Progr.: 12.00-02.00. Verification by letter.

EMISORA NUEVO MUNDO - HJKD/HJKE/HJKC m.w.

Address: Emisora Nuevo Mundo Ltda., Bogota. Daily Progr.: 13.00-04.00 English: Mo. 01.00-01.30.

LA VOZ DE LA COLOMBIA - HJCX/HJCZ m.w.

Address: Apt. Postal No. 2665, Bogota. Daily Progr.: 13.00-04.00.

RADIO PACIFICO - HJEX/HJER m.w.

Address: Radio Cadena Nacional, Apt. Nacional 559, Cali. Leading Personality: Dir.: J. Cordoba. M. Daily Progr. 12.00-04.30. Verification by letter.

LA VOZ AMIGA - HJFK/HJFF m.w.

Daily Progr.: 13.00-03.00. Verification by QSL-card.

RADIO MANIZALES - HJFD/HJFB m.w.

Leading Personalities: Dir.: L. O. Gomez. Administrator: E. M. Vélez. Dir. of Progr.: A. L. Galofre. Daily Progr.: 12.00-04.00. News: 17.30, 00.00. Verification by letter.

LA VOZ DE ANTIOQUIA - HJDE/HJDK m.w.

Address: Maracaibo 46-80, Medellin. Daily Progr.: 13.00-04.00. Verification by QSL-card.

EMISSORA NUEVA GRANADA - HJKJ/HJKL m.w.

Address: R. Cadena Nacional, Bogota. Leading Personality: Dir.: E. Ramirez. Daily Progr.: 12.00-04.30. Verification by letter.

CURAÇAO (Neth. Antilles)

Address: Curacaosche Radio Vereniging (CUROM), P.O.Box 31, Willemstad. Cable: "Curaver".

HOME SERVICE: PJC2 - Juliana Zender.

722 kc/s 415,5 m 3 kW

Dutch: 15.30-17.30, 22.00-03.00. - News: 17.00, 23.15.

News in Papiamentu: 23.30. Commercial Programmes: W.: 16.00-16.30, 00.00-01.00.

English: Thurs. 01.00-01.30 arranged by "The Netherlands Welfare Association". The song "There is no place like home" is played before and after this programme.

Announcement: "Juliana Zender Curacao".

Verification by QSL-card. Return postage required.

ECUADOR

All stations commercial exc. HCJB. Language: Spanish.

Stations: Short Waves:

Call	kc/s	m	kW	m.w.
HC5BX	2850	105.0	0.25	R. Cuenca
HC5AO	4200	71.50	0.25	Voz del Tomebamba
HC4AS	4203	71.48	0.25	Voz de los Caras
HC1NE	4470	67.12	0.3	HC1NE R. Nacional Espejo
HC4FF	*4580	65.59	0.3	Voz de Esmeraldas
HC2AJ	*4655	64.80	1	HC2AK R. Difusora del Ecu.
HC2BK	*4675	64.20	0.25	HC2BJ R. El Mundo
HC6BT	*4705	63.62	0.25	HC6VT Voz del Tungurahua
HC2CI	*4718	63.58	0.25	HC2ET R. El Telegrafo
HC1BF	*4750	63.16	0.2	HC1BD R. Comercial
HC4FA	*4765	62.95	0.2	Voz de Manabi
HC5GB	*4770	62.87	0.25	R. Cordillera
HC1PM	*4780	62.76	0.25	HC1FO R. El Palomar
HC4OF	4780	62.76	0.2	Voz de Chone, Chone
HC1GP	4790	62.63	0.2	R. Amazonico, Quit.
HC4HV	4800	62.50	0.3	Voz de Jipijapa
HC6FV	*4830	62.10	0.2	Ondas del Cotopaxi
HC1MI	4840	61.98	0.25	HC1MJ R. Gran Colombia
HC3CV	4850	61.86	0.25	Ondas del Zamora
HC6RT	4885	61.42	0.3	R. Cultural Religiosa
HC1IM	*4905	61.16	0.25	Ambato
HC1AR	4910	61.10	0.2	Voz de Imbabura
HC5LR	4915	61.04	0.3	Voz de Montufar
HC1RC	4930	60.90	1	S. Gabriel
HC5HP	4960	60.48	0.25	Voz de Alausi,
HC5JS	4980	60.24	0.25	HC1RX R. Casa de la Cult.
HC3CD	4990	60.12	0.4	Ondas Ecuatorianas
HC5BL	5025	59.70	0.2	Ondas Azuayas
HC6GY	5990	50.08	0.8	Ondas Castellanas
HCJB	6050	49.59	1	R. Alborada
HC2RQ	6050	49.59	0.25	R. Luz, Ambato
HC1AC	*6060	49.50	0.25	HCJB Voz de los Andes
HC2FQ	*6065	49.46	0.3	Voz del Tropic, Quevedo
HC5PT	6095	49.22	0.25	HC1AB Voz de la Democrac.
HC2FB	*6125	48.98	0.25	HC2FL R. Continental
HC2RL	6635	45.21	0.2	Voz del Perpetuo
HC2LT	*6795	44.15	0.3	Socorro, Cuenca
				HC2FB R. Nacional Condor
				R. Quinta Piedad
				R. Costa Azul, Salin.

Call	kc/s	m	kW	m.v.
HC1FM	*6830	43.82	0.25	R. Equinoccial
HC4EB	6870	43.66	0.25	R. Manta, Manta
HC4DC	7245	41.43	0.25	R. Cenit, Manta
HC2AN	*7350	40.81	0.2	HC2DC R. Cenit, Guayaquil
HC1RP	9510	31.55	0.2	HC1RP R. Catolica, Quito
HCJB	9745	30.78	1	HCJB Voz de los Andes
HC2FW	11805	25.41	0.3	HC2FL R. Continental, Gu.
HCJB	11915	25.17	10	HCJB Voz de los Andes
HCJB	15115	19.85	1	HCJB Voz de los Andes
HCJB	17890	16.77	10	HCJB Voz de los Andes

Medium Waves:

Call	kc/s	m	kW	s.w.
HC1JB	700	429	1	HCJB
HC1RP	890	337	0.2	HC1RP
HC2AK	1050	286	1	HC2AJ
HC1BD	1111	270	0.2	HC1BF
HC2FB	1140	263	0.25	HC2FB
HC2ET	1150	261	0.25	HC2GI
HC2BJ	1220	246	0.25	HC2BK
HC1FO	1240	242	0.25	HC1PM
HC6VT	1250	240	0.3	HC6BT
HC1AB	1280	234	0.25	HC1AC
HC2DC	1300	231	0.2	HC2AS
HC1NE	1310	229	0.3	HC1NE
HC2FL	1400	214	0.3	HC2FQ
HC1MJ	1410	213	0.25	HC1MI
HC1RX	1430	210	0.25	HC1RC

Other Medium Wave stations:

11 low power stations in Quito, 12 in Guayaquil, 3 in Riobamba, 2 in Ambato and 1 in Milagro.

FM:	Schedule	Language
105.9 mc/s 0.25 HCJB, Quito	irregular	various
107.0 - 0.25 HCJB, Quito	10.40-04.00	Spanish
108.0 - 0.25 HCJB, Quito	24 hours a day	as s.w.

RADIO CUENCA - HC5BX. Address: Pdre. Aguirre 104. Cuenca.**LA VOZ DEL TOMBAMBA - HC5AO.** Address: Apartado 23, Cuenca. Daily Progr.: 16.30-19.00, 23.00-03.30.**LA VOZ DE LOS CARAS - HC4AS.** Address: Sucre 1922, Bahia.**RADIO NACIONAL ESPEJO - HC1NE/HC1NE m.w.** Address: Guayaquil 1594, Quito.**LA VOZ DE ESMERALDAS - HC4FF.** Address: Palacio Municipal, Esmeraldas. Daily Progr.: 01.00-04.00.**RADIO DIFUSORA DEL ECUADOR - HC2AJ/HC2AK m.w.** Address: Av. Olmedo 110, Guayaquil. Daily Progr.: 12.00-19.00, 23.00-04.00.**RADIO EL MUNDO - HC2BK/HC2BJ m.w.**

Address: 9 de Octubre 308, Guayaquil.

LA VOZ DEL TUNGURAHUA - HC6BT/HC6VT m.w. Address: J. B. Vela y Lalama, Ambato. Daily Progr.: 23.00-04.00.**RADIO EL TELEGRAFO - HC2GI/HC2ET m.w.**

Address: 10 de Agosto 601, Guayaquil. Daily Progr.: 12.00-03.30.

RADIO COMMERCIAL - HC1BF/HC1BD m.w.

Address: Apartado 2583, Quito. Daily Progr.: 11.00-04.00. Announcement: Radio Commercial, Una Voz Ecuatoriana para la America". Verification by QSL-card.

LA VOZ DE MANABI - HC4FA. Address: Av. 18 de Octubre 113, Portoviejo. Daily Progr.: 01.00-03.30.**RADIO CORDILLERA - HC5GB.** Address: Veloz 43, Riobamba.**RADIO EL PALOMAR - HC1PM/HC1FO m.w.**

Address: Colon 1060, Quito. Daily Progr.: 23.00-04.00.

RADIO GRAN COLOMBIA - HC1MI/HC1MJ m.w. Address: Guayaquil 1524, Quito. Daily Progr.: 23.00-04.00 (Sat. 04.45).**ONDAS DEL ZAMORA - HC3CV.** Address: 24 de Mayo, Loja.

Ecuador - Guiana

LA VOZ DE LOS ANDES - HCJB

International Missionary Station. Owned and operated by the World Radio Missionary Fellowship Incorporated, P.O. Box 390, Flushing, New York, U.S.A.

Address: Casilla 691, Quito *Cable*: "Vozandes".

Leading Personalities: Pres.: C. W. Jones. Vice-Pres. & Progr. Dir.: R. Savage. Secretary: A. van der Puy. Treasurer: D. S. Clark.

HOME SERVICE in Spanish: 10.40-04.00 on 700, 6050 kc/s. News: 10.45-11.00 followed by news each hour on the half hour.

FOREIGN SERVICE October 1st to March 31st.

English:

11.30-12.30 to N. & S. America in 31, 25 m.b. A.
21.00-22.30 to Europe in 25, 19, 16 m.b. B.
02.00-04.00 to N. & S. America in 31, 25, 19 m.b. C.
04.00-05.00 to N. & S. America in 49, 31, 25, 19 m.b. C.
06.30-10.00 to Australia, N. Z. in 31, 25, 19 m.b. D.
A. = "Morning in the Mountains". B. = "Quito Calling".
C. = "Ecuadorean Echoes". D. = "Southern Cross Salute".

French:

20.00-20.30 to Europe in 25, 19, 16 m.b.

German:

19.30-20.00 to Europe in 25, 19, 16 m.b.

05.00-05.30 to Europe in 31, 25, 19 m.b. §)

§) Not. Tues.

Portuguese:

10.00-11.00 to N. & S. America in 31, 25, 19 m.b. *)

23.30-24.00 to Brazil in 19, 16 m.b. †)

*) from 10.00-10.45 not Tues. †) Wed., Thurs., Fri.

Russian:

11.00-11.30 to Australia in 31, 25 m.b.

16.00-17.30 to Europe in 16 m.b. (Sun. only)

17.00-17.30 to Europe in 16 m.b. (W.)

22.30-23.00 to Europe in 19, 16 m.b.

05.30-06.00 to Europe in 31, 25, 19 m.b.

Spanish:

11.00-16.00 to N. & S. America in 49, 19 m.b.

17.00-19.30 to N. & S. America in 49, 31, 19 m.b.

23.30-24.00 to N. & S. America in 49, 31, 19, 16 m.b. §)

00.00-02.00 to N. & S. America in 31, 25, 19 m.b.

06.00-06.30 to Europe in 31, 25, 19 m.b.

§) Tues., Sat., Sun.

Swedish:

20.30-21.00 to Europe in 25, 19, 16 m.b.

Yiddish:

23.00-23.30 to Europe in 19, 16 m.b.

NB: Monday is silent day.

Announcement: "This is the Voice of the Andes, radio station HCJB, with studios located just fifteen miles south of the line of the equator at Quito, Ecuador in South America".

Interval-Signal: Time Signal each half hour consisting of three short tones followed by a long tone (V = ... —) long dash indicating hour or half hour.

Verification by QSL-card. Return postage is not required.

LA VOZ DE IMBABURA - HC1IM. Address: Palacio Municipal, Apartado 59, Ibarra. Verification by QSL-card.

RADIO CASA DE LA CULTURA - HC1RC/HC1RX m.w. Address: Av. 6 de Diciembre 332, Quito. Daily Progr.: W.: 11.30-13.00, 17.00-19.00, 00.00-03.15 (Sat. 04.00. Sun.: 11.00-13.00.

ONDAS ECUATORIANAS - HC5HP. Address: Av. 5 de Junio, Riobamba. Daily Progr.: 02.00-04.00.

ONDAS AZUAYAS - HC5JS. Address: Radio Servicio Nacional, Bolivar 190, Apartado 4980, Cuenca.

ONDAS CASTELLANAS - HC3CD. Address: Bolivar 391, Loja.

RADIO ALBORADA - HC5BL. Address: Pdre. Aguirre 161, Cuenca. Daily Progr.: 16.30-04.00.

RADIO LUZ - HC6GY. Address: Antena del Folklore Ecuatoriano, Calle Quito 418, Apartado Postal 240,

Ambato. Leading Personalities: Dir. Gen.: C. A. Soria. Dir. of Progr.: E. Soria E. Daily Progr.: 11.00-14.00, 17.00-19.00, 00.00-01.00, 02.00-04.00. Verification by letter. Return postage requested.

RADIO CONTINENTAL - HC2FQ/HC2FL m. w.

Address: Colon 520, Guayaquil. Daily Progr.: 16.45-04.00. Verification by QSL-card.

LA VOZ DE LA DEMOCRACIA - HC1AC/HC1AB m.w.

Address: Calle Caldas 501, Quito. Daily Progr.: 17.00-21.00, 23.00-04.30.

RADIO NACIONAL CONDOR - HC2FB/HC2FB m.w.

Address: Boyaca 1205, Casilla 3345, Guayaquil. Daily Progr.: 00.00-05.00.

RADIO QUINTA PIEDAD - HC2RL. Address: P. O. Box 759, Guayaquil. Daily Progr.: 02.00-04.30 Wed. only.

RADIO EQUINOCCIAL - HC1FM. Address: Av. Mariano Acosta, Ibarra. Daily Progr.: 22.00-03.30. Announcement: "Aqui Radio Equinoccial, Ibarra, Ecuador, America del Sur-La emisora mas popular y fuerte en el norte de la pais".

RADIO MANTA - HC4EB. Address: Apartado 4869, Manta. Daily Progr.: 16.30-18.00, 23.30-04.00.

RADIO CENIT - HC2AN/HC2DC m.w. Address: Av. 9 de Octubre 608, Guayaquil. Daily Progr.: 11.30-04.30.

News: 11.30, 13.00, 23.30, 04.00. Announcement: HCDC2.. on da larga 1300 kc/s, HCAN2... onda corta 7350 kc/s.

Interval-Signal: Serenator china.

FALKLAND ISLANDS

Number of Listeners: 660. Language: English.

Address: Broadcast Studios, Port Stanley.

Stations: 1500 kc/s 200 m 3400 kc/s 88.24 m 0.25 kW*)

6100 kc/s 49.18 m 0.25 kW

*) to be increased to 5 kW.

Daily Programmes: Mo. 00.30-01.30 - Tues. 23.15-01.00 - Wedn., Thurs., Fri. 23.15-01.00. - Sat. 21.00-22.00, 23.15-01.00. - Sun. 21.00-22.00, 23.00-23.59. - Local News: Fri. after announcement at 21.05.

GUIANA (British)

RADIO DEMERARA (Commercial)

Address: B. G. United Broadcasting Co. Ltd., Georgetown. *Cable*: "Broadcast".

Leading Personalities: Gen. Man.: W. L. Robinson. Sales Man.: U. Goveia. Eng.-in-charge: Edw. MacDowell. Production Supervisor: R. Khan. Principal Announcers: Lillian Fraser, Olga Lopes-Seale, Jack Casimir and Edsel Fung.

HOME SERVICE in English: 09.45-17.15, 19.45-02.15. ZFY 1230 kc/s 244 m 0.5 kW - ZFY 5981 kc/s 50.16 m 2 kW - ZFY 3255 kc/s 92.17 m 2 kW - News: 11.15, 20.10, 00.45.

Announcement: "This is Radio Demerara, Br. Guiana". Interval-Signal: Vibraharp modulations. Programmes open and close with "Tomorrow is a lovely day" followed by the national anthem. - Verification by QSL-card. Return postage is required.

GUIANA (French)

RADIO CAYENNE (Government)

Address: Radio Cayenne, Radiodiffusion Francaise. Prefecture de la Guyane, Cayenne.

HOME SERVICE in French:

6199 kc/s 48.39 m 0.35 kW 22.30-23.30.

News: 23.15.

Announcement: "Ici Cayenne, Radiodiffusion Francaise".

Interval-Signal: Opens and closes with "La Marseillaise". Verification by QSL-card.

PARAGUAY

All stations commercial exc. ZPAI. Language: Spanish. Stations:

Short Waves:

Call	kc/s	m	kW	m.w.	Call	kc/s	m	kW	m.w.
ZPA1	6275	47.81	3	ZP1	ZPA3	11850	25.32	1.2	ZP3
ZPA4	9735	30.82	1	ZP4	ZPA5	11950	25.10	2.5	ZP5

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
ZP3	700	429	10	ZPA3	ZP9	970	309	1	2)
ZP4	730	411	1	ZPA4	ZP11	1200	250	0.5	3)
ZP7	900	333	1.5	1)	ZP6	1330	226	0.5	4)
ZP5	920	326	5	ZPA5	ZP1	1360	221	0.5	

1) Radio Guarani, Asuncion. 2) Radio La Capital, Asuncion. 3) Radio Charita, Asuncion. 4) Radio Guaira, Villarrica.

RADIO NACIONAL - ZPA1/ZP1 m.w.

Address: Coronel Martinez 224, Asuncion. **Daily Progr.:** 15.00-17.00, 22.30-03.00. Verification by QSL-card or letter.

RADIO STENTOR - ZPA4/ZP4 m.w.

Address: Independencia Nacional 703, Asuncion. **Daily Progr.:** 22.30-03.00.

RADIO TELECO - ZPA3/ZP3 m.w.

Address: Calle Azara 56, Asuncion. **Daily Progr.:** 11.35-18.05, 22.00-02.05. Verification by QSL-card.

RADIO ENCARNACION - ZPA5/ZP5 m.w.

Address: Cia. Paraguaya de Radiodifusion S.A. Encarnacion. Cable: "Madelaire". Leading Personalities: Pres.: C. Madelaire. Dir.: C. Madelaire (Jr.). **Daily Progr.:** 10.30-02.30. News: 12.00, 13.00, 15.30, 19.00, 22.00, 02.00. Verification by QSL-card. Future-Plans: m.w. (10 kW), s.w. (5 kW) 1954.

PERU

All stations commercial exc. R. Nacional and R. Mundial. Language Spanish exc. where indicated.

Stations - Short Waves:

Call	kc/s	m	kW	m.w.
OAX4V	5890	50.93	0.5	OAX4U R. America, Lima
OBX4Q	5970	50.25	2	OBX4X R. El Sol, Lima
OAX4P	5984	50.13	0.25	R. Huancayo, Hu.
OAX4Q	6011	49.92	1	OAX4X R. Victoria, Lima
OAX6B	6035	49.71	0.15	OAX6J R. Landa, Arequipa
OAX6A	6042	49.65	0.2	R. Arequipa, Ar.
OAX4Z	6082	49.32	15	OAX4A/
				OBX4A R. Nacional, Lima
OAX4G	6092	49.26	0.25	OAX4B R. Lima, Lima
OBX4L	6110	49.10	0.2	OBX4E R. Restauracion, L.
OAX7A	6128	48.96	0.1	R. Cuzco, Cuzco
OAX1A	6150	48.78	0.25	OAX1C R. Delcar, Chiclayo
OBX4G	6153	48.75	0.5	OAX4Y R. Excelsior, Lima
OAX1B	6198	48.41	0.3	R. Piura, Piura
OAX2A	6200	48.39	0.8	OAX2B R. Trujillo, Trujillo
OAX4H	6307	47.57	1	OAX4F R. Mundial, Lima
OBX4P	6330	49.00	0.3	OAX4L R. Miraflores, Mira.
OAX6E	6336	47.37	0.3	OAX6C R. Continental, Ar.
OBX4B	6526	46.00	0.35	R. Azul, Cerro de P.
OAX2S	6545	45.77	0.3	OBX4O R. S. Christobal, L.
OAX4C	6564	45.68	0.25	1160kc/s R. Callao, Callao
OAX4J	9340	32.10	0.25	OAX4I R. Colonial, Lima
OAX4W	9405	31.90	0.5	OAX4U R. America, Lima
OAX5C	9475	31.66	0.2	OAX5B R. Universal, Ica
OAX6H	9490	31.61	0.1	R. Tacna, Tacna
OAX4K	9522	31.50	0.3	OAX4E R. Central, Lima
OAX4R	9562	31.37	10	OAX4A/
				OBX4A R. Nacional, Lima
OBX4K	9620	31.19	0.2	OBX4E R. Restauracion, L.
OBX4J	11800	25.42	0.2	OBX4E R. Restauracion, L.
OBX4R	11914	25.18	50	OAX4A/
				OBX4A R. Nacional, Lima
OBX4C	15105	19.86	1	OBX4X R. El Sol, Lima

Call kc/s m kW m.w.

OAX4T	15150	19.80	10	OAX4A/
				OBX4A R. Nacional, Lima
OBX4I	15220	19.71	0.2	OBX4E R. Restauracion, L.
OBX4T	21600	13.90	50	OAX4A/
				OBX4A R. Nacional, Lima

Abbreviations: Ar.=Arequipa; Hu.=Huancayo; L.=Lima; Mira.=Miraflores; P.=Paseo.

Medium Waves:

Call	kc/s	m	kW	s.w.	Call	kc/s	m	kW	s.w.
OAX4X	780	384.6	2	1)	OAX4B	1200	250.0	0.25	12)
OAX4A	854	351.2	10	2)	OAX4L	1250	240.0	0.25	13)
OBX4X	900	333.3	5	3)	OAX4I	1320	227.5	0.25	14)
				4)	OAX4Y	1360	220.6	0.5	15)
OAX4E	930	322.6	0.2	5)	OAX6C	1370	219.0	0.25	16)
OAX4U	1010	297.0	10	6)	OAX2B	1400	214.3	0.25	17)
				7)	OAX6J	1400	214.3	0.3	18)
OBX4O	1030	291.3	0.3	8)	OAX5B	1460	205.2	0.2	19)
OAX4F	1080	277.8	0.25	9)	OBX4E	1470	204.1	0.3	20)
OBX4A	1120	267.8	20	10)	OAX1C	1520	197.4	0.15	21)
OAX4C	1160	258.6	0.3	11)	+ 6 low power m.w. st.				

1) OAX4Q; 2) OAX4Z; 3) OBX4Q; 4) OBX4C; 5)

OAX4K; 6) OAX4V; 7) OAX4W; 8) OAX2S; 9) OAX4H;

10) OAX4Z; 11) 6564 kc/s; 12) OAX4G; 13) OBX4P;

14) OAX4J; 15) OBX4G; 16) OAX6E; 17) OAX2A;

18) OAX6B; 19) OAX5C; 20) OBX4L; 21) OAX1A.

FM:

OBX4F 90.1 mc/s 0.25 kW R. El Sol, Lima.

RADIO AMERICA - OAX4V/OAX4W/OAX4U m.w.

Address: Cia. Peruana de Radiodifusion S.A., Ocoña 476, Lima. **Daily Progr.:** 13.00-05.00 (Sat. 06.00). English: 17.00 (W.), 02.00 (Mo.).

RADIO EL SOL - OBX4Q/OBX4C s.w. OBX4X m.w.

OBX4F f.m.

Address: Cia. Producciones Radiales y Television S.A.,

Pasj Encarnación 115, Lima. **Daily Progr.:** 12.00-05.00.

RADIO HUANCAYO - OAX4P s.w.

Address: "La Voz del Centro del Peru", Apt. 187, Huan

cayo. **Daily Progr.:** 17.00-18.30, 02.00-04.30.

Verification by QSL-card.

RADIO VICTORIA - OAX4Q/OAX4X m.w.

Address: Paseo de la Republica, Lima. **Daily Progr.:**

12.30-05.00 (Sat. 06.00).

RADIO LANDA - OAX6B/OAX6J m.w.

Address: Calle Sucre 409, Arequipa. **Daily Progr.:** 13.00-

05.00. Verification by QSL-card.

RADIO AREQUIPA - OAX6A s.w.

Address: Palacio Viejo No. 106, Arequipa. **Daily Progr.:**

23.00-04.00.

RADIO NACIONAL - OAX4Z/OAX4R/OBX4R/

OAX4T/OBX4T s.w. OAX4A/OBX4A m.w.

Address: Avenida P. Thouairs No. 441, Lima. **Daily Progr.:**

12.00-14.00, 16.00-05.00. English (News): 18.15 on

OAX4T. Other English progr. irregularly. Announcements

in Spanish, French and English. Verification by QSL-card.

RADIO LIMA - OAX4G/OAX4B m.w.

Address: Radio Lima S.A., Avenida Uruguay No. 355,

Lima. **Daily Progr.:** 12.00-05.00.

RADIO RESTAURACION - OBX4L/OBX4K/OBX4J/

OBX4I s.w. OBX4E m.w.

Address: Av. Wilson No. 911, Lima. **Daily Progr.:** 12.00-

05.00.

RADIO CUZCO - OAX7A s.w.

Address: Sapphisn, Cuzco. **Daily Progr.:** 16.00-19.00,

23.00-04.00.

RADIO DELCAR - OAX1A/OAX1C m.w.

Address: Saenz Peña No. 392, Chiclayo. **Daily Progr.:**

16.00-19.00, 23.00-05.00.

RADIO EXCELSIOR - OBX4G/OAX4Y m.w.

Address: Jirón Camana No. 975, Lima. **Daily Progr.:**

12.00-05.00.

RADIO PIURA - OAX1B s.w.

Address: Tacna No. 871, Piura. **Daily Progr.:** 12.00-04.30.

RADIO TRUJILLO - OAX2A/OAX2B m.w.

Peru - Uruguay

Address: "La Voz del Norte del Peru", Diego de Almagro 349, Apartado 338, Trujillo.

Leading Personalities: Dir. Gen.: J. M. Castro. Pres. of Board of Directors: A. Umberto. Dir.: N. Gonzáles. Dir. of Progr.: M. A. Hidalgo. Administrator: Miss E. Castro M. Secretary: Miss E. Puente A.

Daily Progr.: 23.30-04.30. Verification by QSL-card.

RADIO MUNDIAL - OAX4H/OAX4F m.w.

Address: Jiron Unión Nr. 733, Lima. **Daily Progr.:** 12.30-05.00 (Sat. 06.00).

RADIO MIRAFLORES - OBX4P/OAX4L m.w.

Address: Avenida Larco No. 760, Miraflores. **Daily Progr.:** 13.00-05.00.

RADIO CONTINENTAL - OAX6E/OAX6C m.w.

Address: 3° Piso Teatro Municipal, Arequipa. **Daily Progr.:** 12.30-05.00.

RADIO AZUL - OBX4B s.w.

Address: Empresa Radiodifusora. Cerro de Pasco, Aparado No. 19, Cerro de Pasco. **Daily Progr.:** 22.00-04.30.

Announcement: "Desde los pichachos mas alto del Continente, aquí: OXB-4-B, "Radio Azul" la Voz Andina del Peru, principia su asdicion diaria, esperando que los diferentes programas que vamos a tener el grado de irradiar, sea del agrado de nuestros oyentes, y esperando ser favoreci do con su sintonia, principiamos con...". Verification by QSL-card.

RADIO SAN CRISTOBAL - OAX2S/OBX4O m.w.

Address: Jiron Tarapacá No. 897, Lima. **Daily Progr.:** 12.30-05.00.

RADIO CALLAO - OAX4C/1160 kc m.w.

Address: "La Voz del Primer Puerto del Peru, Avenida Saenz Peña No. 151, Callao. **Daily Progr.:** 16.00-04.00.

RADIO COLONIAL - OAX4J/OAX4I m.w.

Address: Radio Colonial S.A., Plumereros No. 372, Lima. **Daily Progr.:** 16.00-17.30, 01.00-03.30.

RADIO UNIVERSAL - OAX5C/OAX5B m.w.

Address: Loreto No. 124/128, Ica. **Daily Progr.:** 16.30-19.00, 22.30-05.00.

RADIO TACNA - OAX6H

Address: Aniceto Ibarra No. 436, Tacna. **Daily Progr.:** 23.00-04.00 (Testing to 05.00). Reports requested. Verification by letter.

RADIO CENTRAL - OAX4K/OAX6E m.w.

Address: Jiron Unión 1038, Lima. **Daily Progr.:** 12.30-05.00.

SURINAM (DUTCH GUIANA)

SURINAM (DUTCH GUIANA)

Address: Algemeene Vereeniging Radio Omroep Surinam, (Commercial), P.O. Box 297, Paramaribo.

Stations:

PZH5 5752 kc/s 52.11 m 0.35 kW

PZC 15405 - 19.48 - 5 -

Daily Programs in Dutch:

PZH5 Weekdays 13.10-15.40, 20.40-01.40 (Sun. 11.40-16.40, 20.45-02.00). Musical programme presented in Hindi: Sun. 18.00-20.45. Dept. of Education broadcast every Sun. 01.40-02.10. News in English and Spanish for Carribbean and South America. Verification by QSL-card.

URUGUAY

Asociacion Nacional de Broadcasters Uruguayos

(ANDEBU), Uruguay 1218. President: Mr. Solino. Secretary: Mr. H. F. Artucio. All stations commercial exc. SODRE, CXA14 and CX26.

Stations: Short Waves. (M.=Montevideo).

Call kc/s m kW m.w.

CXA2 6000 50.00 5 CX32 R. de Montevideo, M.

CXA30 6035 49.71 1 CX30 R. Nacional, M.

CXA14 6055 49.55 5 CX26 Servicio de Informacion y Prensa, M.

CXA3 6075 49.38 2.5 CX10 R. Ariel, M.

CXA4 6125 48.98 10 CX6 SODRE, M.

Call kc/s m kW m.w.

CXA13 6155 48.74 10 CX16 R. Carve, M.

CXA21 6170 48.62 1 CX40 R. Fenix, M.

CXA6 9620 31.19 20 CX6 SODRE, M.

CXA7 11735 25.56 5 CX12 R. Oriental, M.

CXA19 11835 25.35 5 CX14 El Espectador, M.

CXA10 11900 25.21 20 CX6 SODRE, M.

Medium Waves:

Call kc/s m kW s.w.

CX4 610 492 5 1)

CX6 650 462 25 CXA6

CX8 690 435 5 2)

CX10 730 411 5 CXA3

CX12 770 390 25 CXA7

CX14 810 370 15 CXA19

CX16 850 355 50 CXA13

Call kc/s m kW s.w.

CX18 890 337 5 3)

CX20 930 323 5 4)

CX26 1050 286 5 CXA14

CX28 1090 275 5 6)

CX30 1130 266 5 CXA30

CX32 1170 256 5 CXA2

CX40 1330 226 0.5 CXA21

CX44 1410 213 5 7)

+ 27 m.w.-stations.

1) R. Rural, Santos Lugares. 2) R. Sarandi, Montevideo. 3) R. Libertad Sport, Montevideo. 4) R. Montecarlo, Montevideo. 6) R. Imporcial, Montevideo. 7) R. Solis, Montevideo.

RADIO DE MONTEVIDEO - CXA2/CZ32 m.w.

Address: Compania Uruguay de Publicidad Sociedad Anonima (C.U.P.S.A.), Av. 18 de Julio 1194. **Daily Progr.:** 10.00-03.00. News: 10.00, 11.55, 13.55, 14.45, 15.55, 16.55, 17.55, 18.55, 19.55, 20.55, 21.55, 22.55, 23.55, 00.55. - *Armenian Hour:* Sun. 12.00. - *Hungarian Hour:* Sun. 12.30. - *Announcement:* "Sras y Sres tangan Uds. muy buenos dias, CX32, de Montevideo, Uruguay y su emisora en ondas cortos CXA2...".

RADIO NACIONAL - CXA30/CX30 m.w.

Address: Plaza Independencia, M. **Daily Progr.:** 10.00-03.00. News: Every half hour from 10.00 - Verification by QSL-card.

SERVICIO DE INFORMACION y PRENSA - CXA14/CX26 m.w.

Address: Ministerio de Ganaderia y Agricultura, Av. 25 de Mayo 385, M. **Daily Progr.:** 14.00-17.00, 20.30-24.00.

RADIO ARIEL - CXA3/CX10 m.w.

Address: Av. 18 de Julio 1460. **Daily Progr.:** 10.00-03.00. News: 10.03, 10.30, 13.00, 14.15, 15.00, 16.00, 22.00, 23.00. - *Announcement:* "Difusoras Ariel, por entermedio de sus ondas CX10 en 730 kc/s y CXA3 en la banda de 49 m". - Verification by QSL-card.

SERVICIO OFICIAL DE DIFUSION RADIO ELECTRICA (SODRE) - CXA4/CXA6/CXA10/CX6 m.w.

Address: Andes 1459, M. **Cable:** "SODRE". **Daily Progr.:** 12.00-02.00. - News: 13.00, 15.00, 20.00, 24.00. - *Announcement:* "Servicio Oficial de Difusion Radio Electrica, Montevideo con sur emisoras CX6, CX38, CXA4, CXA6, CXA10". - *Interval-Signal:* The first movement of "Campo". - Verification by QSL-card.

RADIO CARVE - CXA13/CX16 m.w.

Address: Mercedes 973, M. **Cable:** SADREP. **Daily Progr.:** 10.30-03.00. - News: Every hour on the hour from 11.00-03.00. - *Announcement:* "SADREP. Por intermedio de CX16 Radio Carve de Montevideo, im'cia su trasmision del dia en una onda de 353 m 850 kc/s des de sus estudios en Mercedes 973 M.". - Verification: by QSL-card.

RADIO FENIX - CXA21/CX40 m.w.

Address: Rio Branco 1366, M. **Daily Progr.:** 10.00-03.00.

RADIO ORIENTAL - CXA7/CX12 m.w.

Address: Olimar 1364, M. **Daily Progr.:** 11.00-02.00.

RADIO EL ESPECTADOR - CXA19/CX14 m.w.

Address: Difusoras del Uruguay S.A., 18 de Julio 1393, M. **Cable:** Difuruguay. **Daily Progr.:** 10.55-03.00. - News: in Spanish: Every hour on the hour from 11.00-03.00. In Italian: 16.15-16.30 Thurs., Sun. In French: 16.30-16.50 Sat. In Polish: 22.15-22.45 Sun. In English: 23.10-23.30. - *Announcement* in Spanish, Portuguese, French, English. - Verification by QSL-card.

VENEZUELA

All stations commercial exc. R. Nacional. Language: Spanish.

Camera Venezolana de Radiodifusion is the organization of all broadcasting stations. Address: Bolsa a Padre Sierra 22 altos, Caracas. Cable: Comradio.

Stations: Short Waves.

Call	kc/s	m	kW	m.w.
YVOG	3310	90.63	1	R. Trujillo, Trujillo
YVQG	3320	90.36	0.25	YVOH Voz de Anzoategui, Barcelona 11.00-03.00
YVQL	3330	90.09	0.85	YVQM Voz del Tigre, El Tigre 10.00-02.30
YVMU	3340	89.82	1	R. Carora, Carora 10.30-03.00. QSL-card
YVKT	3350	89.55	1	YVKU R. Libertador
YVOC	3360	89.26	1	YVOD Ecos del Torbes
YVMI	3370	89.02	1	YVMJ Voz de la Fe, Maracaibo 10.30-04.30
YVQN	3380	88.76	7.5	YVQO Ondas Portenas, Puerto La Cruz 10.30-04.30
YVKX	3390	88.50	2	YVKY Voz de la Patria, Caracas QSL-letter, 10.30-03.30
YVKP	3400	88.24	0.7	YVKQ R. Tropical, Caracas 10.30-03.30
YVMK	3410	87.97	2.5	YVML R. Cabimas
YVOJ	3420	87.72	1.5	YVOL R. Universidad
YVMC	*3440	87.21	6.8	YVMD R. Mara, Maracaibo 10.30-13.30, 15.30-03.30
YVLI	3450	86.96	1.2	YVLJ R. Maracay, Maracaibo 11.00-03.00
YVLC	3460	86.71	1	YVLD R. Valencia, Valencia 10.30-04.30
YVUI	3470	86.44	1	YVQJ Emisoras Unidas, Barcelona 11.30-03.30
YVLE	3480	86.21	0.5	YVLF R. Puerto Cabello
YVRA	3490	85.96	1	YVRB R. Monagas
YVLG	*3520	86.16	1	YVLH R. Girardot, Maracay 10.30-03.30
YVMA	*4750	63.19	5	YVMB Ecos del Zulia
YVKV	*4760	63.03	0.5	YVKW Emisora Vargas, La Guaira 10.30-04.30
YVMW	4770	62.89	1	Ondas del Caribe, Punto Fijo 11.00-18.30, 20.30-03.30
YVLA	4780	62.76	1	YVLB Voz de Carabobo, Valencia 11.30-03.00. QSL-letter
YVQC	4790	62.63	1	YVQD Ecos del Orinoco (at present inactive)
YVME	4800	62.50	7.5	YVMF Ondas del Lago
YVMG	4810	62.37	1	YVMH R. Popular
YVNB	4820	62.24	1	YVNA Ondas de los Medanos, Coro 11.30-02.30
YVOA	4830	62.11	5	YVOB Voz del Tachira
YVOI	4840	61.98	1.5	R. Valera
YVMS	4850	61.86	3	YVMT R. Universo
YVPA	4860	61.73	1	R. Yaracay, S. Felipe 10.30-04.30
YVKF	4880	61.48	7.5	YVKG Ondas Populares
YVKB	4890	61.35	10	YVKC Radiodifusora Venezuela
YVQE	4900	61.22	1	YVQF R. Bolivar
YVKR	4920	60.99	10	YVKF R. Caracas
YVQM	4940	60.73	4	YVMR R. Barquisimeto
YVMM	*4950	60.60	1	YVMN R. Coro, Coro 11.00-18.30, 20.30-03.30
YVQA	4960	60.48	1	YVQB R. Sucre
YVLK	4970	60.36	7.5	YVLL R. Rumbos

Call	kc/s	m	kW	m.w.
YVMO	4990	60.12	2	YVMP R. Occidental, Barquisimeto 11.30-03.30
	5010	59.88	1	R. Aeropostal, Carac.
YVKM	5030	59.67	7.5	YVKL R. Continente
YVKD	*5050	59.41	5	YVKE R. Cultura
YVKO	6170	48.62	5	YVKA R. Nacional
YVXJ	9510	31.55	5	YVMR R. Barquisimeto
YVMG	9625	31.17	1	YVMH R. Popular
YVSC	9640	31.12	5	YVKA R. Nacional

Medium Waves:

	kc/s	m	s.w.		kc/s	m	s.w.
YVKL	590	508	YVKM	YVKE	1100	273	YVKD
YVKA	630	477	YVKO	YVMF	1120	267	YVME
YVLH	660	455	YVLG	YVQB	1120	267	YVQA
YVLB	690	433	YVLA	YVMD	1150	261	YVMC
YVQF	720	417	YVQE	YVNA	1150	261	YVNB
YVKY	710	422	YVKX	YVKQ	1160	258	YVKP
YVKS	750	400	YVKR	YVML	1180	254	YVMK
YVOD	780	384	YVOC	YVMN	1210	248	YVMM
YVKC	790	379	YVKB	YVMH	1250	240	YVMG
YVLD	850	353	YVLC	YVMP	1270	236	YVMO
YVKU	880	341	YVKT	YVLF	1290	233	YVLE
YVLJ	930	323	YVLI	YVMB	1300	230	YVMA
YVKG	960	313	YVKF	YVOH	1390	216	YVQG
YVOB	980	306	YVOA	YVMJ	1400	214	YVMI
YVQM	1010	297	YVQL	YVQD	1400	214	YVQC
YVLL	1020	293	YVLK	YVOL	1450	207	YVOJ
YVQO	1030	292	YVQN	YVRB	1420	211	YVRA
YVQO	1040	289	YVQN	YVMR	1490	202	YVQM
YVOJ	1080	278	YVUI				

FM:

42.5 mc/s	YVQP	R. Puerto la Cruz, Puerto la Cruz
96.0	-	YVQS Ondas Portenas, Puerto la Cruz
96.0	-	YVQR Voz del Tigre, El Tigre
100.0	-	YVKE R. Cultura, Caracas

RADIO TRUJILLO - YVOG. Address: Calle Independencia 200, Trujillo. Daily Progr.: 22.00-02.30.

RADIO LIBERTADOR - YVKT/YVKU m.w.

Address: Provensa Propagandistas Venezolanos, Caracas. Daily Progr.: 10.30-03.00. News: 23.30-24.00 Italian, 00.00-00.15 Portuguese, 00.15-00.30. Verification by letter.

ECOS DEL TORBES - YVOC/YVOD m.w.

Address: Edo. Tachira Calle 9-55, Apt. 152, San Cristobal. Daily Progr.: 11.30-02.30.

RADIO CABIMAS - YVMK/YVML m.w.

Address: Calle Democracia, Cabimas. Daily Progr.: 09.30-11.30, 14.30-16.30, 20.30-03.00. Verification by letter.

RADIO UNIVERSIDAD - YVOJ/YVOL m.w.

Address: Apartado 74, Merida. Daily Progr.: 10.30-12.30, 15.30-18.30, 22.30-03.30.

RADIO PUERTO CABELLO - YVLE/YVLF m.w.

Address: Apartado 4, Puerto Cabello. Daily Progr.: 10.30-02.30.

RADIO MONAGAS - YVRA/YVRB m.w.

Address: Apartado 14, Maturin. Daily Progr.: 10.30-04.00. Verification by letter.

ECOS DEL ZULIA - YVMA/YVMB m.w.

Address: La decana de las emisoras de Occidente, Maracaibo. Daily Progr.: 10.30-13.30, 15.30-18.30, 20.30-03.30.

ECOS DEL ORINICO - YVQC s.w., YVQD m.w.

Address: Circuito Radiofonico del Sur, C. Bolivar. Daily Progr.: 22.30-02.30 (YVQC inactive).

ONDAS DEL LAGO - YVME/YVMF m.w.

Address: Apartado 261, Maracaibo. Daily Progr.: 11.30-04.30. Verification by letter.

RADIO POPULAR - YVMG/YVMH m.w.

Address: P.O.Box 247, Maracaibo. Daily Progr.: 11.00-03.30.

Venezuela - Standard Frequency Stations

LA VOZ DEL TACHIRA - YVOA/YVOB m.w.

Address: Apartado 37, S. Christobal. Cable: "Voztachira". Daily Progr.: 10.30-03.00. Verification by letter.
RADIO VALERA - YVOI. Address: Calle Bolivar 54, Valera. Daily Progr.: 15.45-17.30, 21.30-02.30.

RADIO UNIVERSO - YVMS. Address: Apt. 77, Barquisimeto. Daily Progr.: 15.30-18.30, 21.30-02.30. Announcement: "YVMS, YVMT, R. Universo, Barquisimeto, Venezuela, America del Sur". Verification by letter.

ONDAS POPULARES - YVKF/YVKG m.w.

Address: Corporacion Radiofonica Venezolana, Apt. de Correos 587, Caracas. Daily Progr.: 10.30-04.30. English: W.: 11.30-12.30. News: 11.50. Weather 11.45. Verification by letter.

RADIODIFUSORA VENEZUELA - YVKB/YVKG m.w. Address: "Provensa", Caracas. Daily Progr.: 10.30-04.30. News: 10.30, 15.00, 22.30, 02.00. English: W.: 11.30-12.00. Verification by QSL-card.

RADIO BOLIVAR - YVQE/YVQF m.w.

Address: Circuito Radiofonico del Sur, C. Bolivar. Daily Progr.: 15.30-02.30.

RADIO CARACAS - YVKR/YVKS m.w.

Address: Apartado 2057, Caracas. Daily Progr.: 10.30-04.30. Verification by QSL-card.

RADIO BARQUISIMETO - YVQM/YVXJ/YVMR m.w.

Address: Apartado 76, Barquisimeto. Daily Progr.: 10.30-03.30. Verification by letter.

RADIO SUCRE - YVQA/YVQB m.w.

Address: Calle Sucre 85, Cumana. Daily Progr.: 11.30-03.00.

RADIO RUMBOS - YVLK/YVLL m.w.

Address: Apartado 514, Caracas. Daily Progr.: 10.30-03.30 (Sun. 06.30). English: Mo., Fri. 23.00-24.00 (for Americans in Venezuela). News in English: 23.45.

RADIO CONTINENTE - YVKM s.w. YVKL m.w.

Address: Apt. 866, Caracas. Cable: Continente. Daily Progr.: 10.30-03.50. News: 10.30-11.00. Announcement: "Cubriendo cada metro cuadrado del territorio nacional, transmite Radio Continente. La Primera en el Cuadrante la Primera en Calidad, 590 kc/s para su Onda Larga, y 5030 kc/s para su Onda Corta". Interval-Signal: Venezuelean Music. Verification by letter.

RADIO CULTURA - YVKD s.w. YVKE m.w.

Address: La Emisora de los Exitos, Caracas. Daily Progr.: 10.30-04.30. Italian: W. 01.30-02.30. Verification by QSL-card.

RADIO NACIONAL - YVKO/YVSC s.w. YVKA m.w.

Address: Radiodifusora Nacional de Venezuela, Caracas. Daily Progr.: 15.25-19.30, 21.25-03.30. News: 16.45, 21.30, 23.30. English: Mo. 23.30-24.00 (summary of the weeks Venezuelan news), Fri. 01.00. French: Fri. 03.15 ("La semaine à Venezuela"). Verification by QSL-card.

STANDARD FREQUENCY STATIONS

RADIO STATION WWV and WWVH (Government)

Addresses: 1. Radio Station WWV, National Bureau of Standards, Washington 25 D. C. U. S. A. 2. Radio Station WWVH, Puunene, Maui, Hawaii.

Stations: WWV broadcasts night and day standard radio frequencies, standard audio frequencies, standard time intervals, seconds pulses, radio propagation disturbance warnings, on 2500 (0.7 kW), 5000 (8 kW), 10000 (9 kW), 15000 (9 kW), 20000 (1 kW), 25000 (0.1 kW). WWVH broadcasts day and night standard radio frequencies, standard audio frequencies, standard time intervals, seconds pulses on 5000 (2 kW), 10000 (2 kW), 15000 (2 kW); continuous exc. for interruptions of four minutes after the hour and half hour and off. 34 minutes at 19.00. During week incl. Tuesday of each month broadcast is interrupted from 19.00 to 22.00 as follows: 5000 kc/s on Tuesday, 10000 kc/s on Wednesday, 15000 on Thursday. Message to listeners: WWV answers reports by QSL-card. WWVH answers by letter.

Address: Radio Research Laboratories, Koganeimachi, Kitamano, Tokyo, Japan.

Leading Personality: The Chief of Standard Frequency Section: K. Matumoto.

Standard Frequencies and Time Signals:

Tokyo JJY 4000 kc 24.00 hours, 8000 kc 21.00-11.00 2 kW

- JJY 2500 kc Mo., 5000 kc Wedn., 10000 kc Fri.: 00.00-24.00 1 kW.

Chiba JJC 3935 kc 10 kW, 9260 kc 1.5 kW: 01.54-02.03

- JJC 4630 kc 5 kW, 13890 kc 1.5 kW: 11.54-12.03

Address: National Physical Laboratory, Teddington Middlesex, Gt. Britain.

MSF Standard Frequency Transmissions:

2500 kc 120 m 0.5 kW continuous 10000 kc 30 m 0.5 kW continuous 5000 kc 60 m 0.5 kW continuous 5000 kc 60 m 10 kW D.: 14.29-15.30.

Announcements: Call sign three times in slow Morse. "This is MSF, Rugby, transmitting carrier and modulation frequencies within 2 parts in 10⁸ of nominal on 2500, 5000 and 10000 kc/s. A transmission of one hour duration is also radiated on 60 kc/s at 14.29 GMT. Carriers are modulated with 1000 c/s for the first five minutes and with 1 c/s pulses for the second five minutes of each quarter hour. At 15 minutes past each hour all transmissions are interrupted for five minutes. These are experimental transmissions and reports will be welcomed by the National Physical Laboratory, Teddington, Middlesex, England. This is MSF, Rugby, England." Verification by letter. Future-Plan: Frequencies of 15000 and 20000 kc/s may be used in place of 10000 kc/s.

INTERNATIONAL TIME SIGNAL

The international time signals of the Royal Greenwich Observatory are radiated as follows: 10.00: 16-9350-13555 -17685 kc/s 18.00: 16-12455-17685 kc/s.

The DOCUMENTATION and INFORMATION BULLETIN of the EUROPEAN BROADCASTING UNION

is the best and the most up-to-date of all international publications dealing with broadcasting and television.

It appears every two months.

ADMINISTRATIVE OFFICE OF THE E. B. U.
37, Quai Wilson GENEVA (Switzerland)

The MONTHLY REPORT (on short wave reception) and the QUARTERLY REPORT (on medium and long wave reception) in the European broadcasting area published by the

TECHNICAL CENTRE OF THE E. B. U.
32, Avenue Alb. Lancaster BRUSSELS (Belgium)
are the best documented and the most objective reports of this nature.

Le BULLETIN DE DOCUMENTATION ET D'INFORMATION de l' UNION EUROPEENNE DE RADIODIFFUSION

est le mieux et le plus complètement renseigné de tous les périodiques internationaux de radiodiffusion et de télévision

Paraît tous les deux mois

OFFICE ADMINISTRATIF DE L'U. E. R.
37, Quai Wilson GENEVE (Suisse)

Les RAPPORTS d'ECOUTE MENSUELS (ondes courtes) et TRIMESTRIELS (ondes moyennes et longues dans la Zone européenne de radiodiffusion) édités par le

CENTRE TECHNIQUE DE L'U. E. R.
32, Avenue Alb. Lancaster BRUXELLES (Belgique)
sont les plus documentés et les plus objectifs.

WORLD TELEVISION

A world survey based on information received from television stations as answers to questionnaires, supplemented with information from UNESCO's new publication "Television—a world survey".

The principal television systems:

Definition refers to the broadcast standard which is normally stated in terms of the number of lines which make up the image. Reference in the following surveys is made throughout merely to 405 lines, 525 lines, 625 lines (CCIR*), 625 lines (Sovjet **) and 819 lines respectively. Details of these five definitions are given in the following table:

	Systems			
	405	525	625	819
Number of lines per picture	405	525	625	819
Video bandwidth (Mc/s.)	3	4	5	10.4
Channel width (Mc/s.)	5	6	7	14
Sound carrier relative to vision carrier (Mc/s.)	-3.5	+4.5	+5.5	-11.15
Sound carrier relative to edge of channel (Mc/s.)	0.25	-0.25	-0.25	+0.10
Interlace	2/1	2/1	2/1	2/1
Line frequency (c/s.)	10,125	15,750	15,625	20,475
Field frequency (c/s.)	50	60	50	50
Picture frequency (c/s.)	25	30	25	25
Sense of vision modulation	Positive	Negative	Negative	Positive
Level of black as percentage of peak carrier	30	75	75	25
Sound modulation	AM	FM	FM	AM

*) The International Radio Consultative Committee.

**) The characteristics are the same as 625 lines CCIR exc. for a difference in bandwidth: video bandwidth 6 Mc/s, channel width 8 Mc/s, sound carrier relative to vision carrier +6.5 Mc/s.

THE SPREAD OF TELEVISION

1) Number of TV stations. 2) Estimated Number of TV receivers. 3) Definition.

	1)	2)	3)		1)	2)	3)
AFRICA				EUROPE			
Algeria	-	-	819	Austria	1*	100	625
Morocco	-	-	819	Belgium	2	5,000	819
Tunisia	-	-	819				625
AMERICA				Czechoslovakia	1*	200	625
Canada	3	362,000	525	Denmark	1	1,500	625
U.S.A.	210	21,535,215	525	France	4	80,000	819
Cuba	24	110,000	525				(441)
Dominican Rep.	1	1,500	525	Germany E	1	500	625
Mexico	6	60,000	525	Germany W	13	10,000	625
Puerto Rico	1	-	525	Gt. Britain	8	2,800,000	405
Argentina	1	15,000	625	Italy	4	6,000	625
Brazil	6	90,000	525	Monaco	-	-	819
Venezuela	2	1,500	625	Netherlands	2	8,000	625
Uruguay	1	1,000	525	Norway	-	-	625
Colombia	-	-	525	Poland*	1	100	625
ASIA				Sweden	2*	500	625
Turkey	1*	200	625	Schweizerland	1	500	625
Hawaii	3	525		Spain	1*	400	625
Japan	5	5,000	525	U.S.S.R.	3		625
Philippines	-	-	525	Yugoslavia	1*		625
Thailand	1*	625					

*) experimental.

TELEVISION CHANNELS

The list below gives the technical data on the different systems (type of modulation, number of lines etc.) and the carrier-frequencies for sound and vision for the channels in use.

A: American system:			Vision carrier			Sound carrier		
Sound: Frequency mod.			Channel			carrier		
Vision: Negative mod.			No			Mc/s		
Number of lines: 525			A-16			483.25		
Frame frequency: 30 Mc/s.			A-17			489.25		
Channel width: 6 Mc/s.			A-18			495.25		
			A-19			501.25		
Channel	Vision carrier	Sound carrier	A-20			507.25		
No	Mc/s	Mc/s	A-21			513.25		
A-2	55.25	59.75	A-22			519.25		
A-3	61.25	65.75	A-23			525.25		
A-4	67.25	71.75	A-24			531.25		
A-5	77.25	81.75	A-25			537.25		
A-6	83.25	87.75	A-26			543.25		
A-7	175.25	177.75	A-27			549.25		
A-8	181.25	185.75	A-28			555.25		
A-9	187.25	191.75	A-29			561.25		
A-10	193.25	197.75	A-30			567.25		
A-11	199.25	203.75	A-31			573.25		
A-12	205.25	209.75	A-32			579.25		
A-13	211.25	215.75	A-33			585.25		
A-14	471.25	475.75	A-34			591.25		
A-15	477.25	481.75	A-35			597.25		

Channel No	Vision carrier Mc/s	Sound carrier Mc/s	Frame frequency: 25 c/s. Channel width: 7 Mc/s (ch. 1 only 6 Mc/s).	Vision carrier Mc/s	Sound carrier Mc/s
A-36	603.25	607.75			
A-37	609.25	613.75	Channel		
A-38	615.25	619.75	No.		
A-39	621.25	625.75	E-1	41.25	46.75
A-40	627.25	631.75	E-1A	42.25	46.75
A-41	633.25	637.75	E-2	48.25	53.75
A-42	639.25	643.75	E-2A	49.75	55.75
A-43	645.25	649.75	E-3	55.25	60.75
A-44	651.25	655.75	E-4	62.25	67.75
A-45	657.25	661.75	E-4A	82.25	87.75
A-46	663.25	667.75	E-5	175.25	180.75
A-47	669.25	673.75	E-6	182.25	187.25
A-48	675.25	679.75	E-7	189.25	194.75
A-49	681.25	685.75	E-7A	192.25	197.75
A-50	687.25	691.75	E-8	196.25	201.75
A-51	693.25	697.75	E-8A	201.25	206.75
A-52	699.25	703.75	E-9	203.25	208.75
A-53	705.25	709.75	E-10	210.25	215.75
A-54	711.25	715.75	E-11	217.25	222.75
A-55	717.25	721.75	F: French standards:		
A-56	723.25	727.75	Sound: Amplitude mod.		
A-57	729.25	733.75	Vision: Positive mod.		
A-58	735.25	739.75	N. of lines: 819 (ch. F1: 441)		
A-59	741.25	745.75	Frame frequency: 25 c/s.		
A-60	747.25	751.75	Channel width: 13, 15 Mc/s		
A-61	753.25	757.75	(ch. 1: 7.6 Mc, ch. 8: 14 Mc).		
A-62	759.25	763.75	F-1	46.00	42.00
A-63	765.25	769.75	F-2	52.40	41.25
A-64	771.25	775.75	F-3	56.15	67.75
A-65	777.25	781.75	F-4	65.55	54.40
A-66	783.25	787.75	F-5	164.00	175.15
A-67	789.25	793.75	F-6	173.40	162.25
A-68	775.25	799.75	F-7	177.15	188.30
A-69	801.25	805.75	F-8	185.25	174.10
A-70	807.25	811.75	F-9	186.55	175.40
A-71	813.25	817.75	F-10	190.30	201.45
A-72	819.25	823.75	F-11	199.70	188.55
A-73	825.25	829.75	F-12	203.45	214.60
A-74	831.25	835.75	F-13	212.85	201.70
A-75	837.25	841.75	J: Japanese system:		
A-76	843.25	847.75	Sound: frequency mod.		
A-77	849.25	853.75	Vision: Negative mod.		
A-78	855.25	859.75	Number of lines: 525.		
A-79	861.25	865.75	Frame frequency: 30 c/s.		
A-80	867.25	871.75	Channel width: 6 Mc/s.		
A-81	873.25	877.75	J-1	91.25	95.75
A-82	879.25	883.75	J-2	97.25	101.75
A-83	885.25	889.75	J-3	103.25	107.75
B: British standards:			J-4	171.25	175.75
Sound: Amplitude mod.			J-5	177.25	181.75
Vision: Positive mod.			J-6	183.25	187.75
Number of lines: 405.			R: Russian system:		
Frame frequency: 25 c/s.			Sound: Frequency mod.		
Ch. width: 5 Mc (Ch. 1 7 Mc).			Vision: Frequency mod.		
B-1	45.00	41.50	Number of lines: 625.		
B-2	51.75	48.25	Frame frequency: 25 c/s.		
B-3	56.75	53.25	Channel width: 8 Mc/s.		
B-4	61.75	58.25	R-I	41.75	48.25
B-5	66.75	63.25	R-II	49.75	56.25
B-6	179.75	176.25	R-III	59.25	65.75
B-7	184.75	181.25	R-IV	77.25	83.75
B-8	189.75	186.25	R-1	145.25	151.75
B-9	194.75	191.25	R-2	153.25	159.75
B-10	197.75	196.25	R-3	161.25	167.75
B-11	204.75	201.25	R-4	169.25	175.75
B-12	209.75	206.25	R-5	177.25	183.75
E: European System:			R-6	185.25	191.75
Sound: Frequency mod.			R-7	193.25	199.75
Vision: Negative mod.			R-8	201.25	207.75
Number of lines: 625.			R-9	209.25	215.75

The following pages give you the data of the different TV-stations of the world. The channel is indicated by a letter followed by a figure. The letter indicates the technical data of the systems which are in use (A: America, B: British etc.) and the figure is the channel number. The effective radiated power in kW for the vision carrier is indicated; and for the sound carrier the output power normally is 1/4 to 1/2 of the vision power.

ALGERIA

Introduction of television in Algeria is planned by the Radiodiffusion-Télévision Française in the first months of 1954. Algiers 175.40 162.25 mc/s 50 kW.

A F R I C A

MOROCCO (Commercial)

Address: Compagnie Marocaine de Radio-Télévision "Telma", 123 rue de Lille, Paris 7e.

Stations: Two transmitters will be set up in Casablanca and Rabat early in 1954. Power 50 kW. French channels. Casablanca and Rabat will be linked with the aid of a relay station and later on a relay st. in Tangier, which in turn might serve as a relay point for communications with Spain.

TUNIS

Radiodiffusion-Télévision Française intend to include Tunisia in the first stage of its development of the French television network. Definition 819. Power 20 kW. French Channel; 212.85 (vision), 201.70 (sound) Mc/s.

A M E R I C A (North)**CANADA**

CANADIAN BROADCASTING CORPORATION (GOVERNMENT)
Address: CBFT: 1425 Dorchester St. W. Montreal Quebec (French). CBLT: 354 Jarvis St., Toronto, Ontario (English).

Leading Personalities: Head Office: Co-ordinator of Television E. L. Bushnell. Ass. to the coordinator: J. P. Gilmore. CBFT: Director: A. Sequin. Progr. Dir.: Fl. Forget. Techn. Dir.: P. Colbert. CBLT: Dir.: F. Mutrie. Progr. Dir.: S. W. Griffiths. Techn. Dir.: R. Horton. Station: 525 lines.

	vision	sound
Montreal CBFT Ch. A 2	15.7	8.28 kW

**) Ottawa CBOT Ch. A 4 50 26.7 kW

Toronto CBLT Ch. A 9 25.75 12.72 kW

**) Relay CBFT, CBLT temporary 15/7.5 kW.

Daily Programmes: W.: 14.00-21.30, 21.30-04.00.

Projected stations:

	video	sound
Montreal CBMT Ch. A 6	50	25 kW in operation 1954
Halifax CBHT Ch. A 3	50	25 kW in operation 1954
Vancouver CBUT Ch. A 9	100	50 kW * temporary 2.5/1.25 kW
Winnipeg CBWT Ch. A 4	53	26 kW ** temporary 15/7.5 kW

* in operation end of 1953 ** early 1954

Relay Facilities: A microwave link is in operation between Montreal and Toronto via Ottawa and Buffalo, N.Y. U.S.A. and Toronto for transmissions of progr. to and from U.S.A. Most stations are commercial, but 242 channels are reserved for the establishment of non-commercial educational television stations.

UNITED STATES (Commercial)

Television stations are frequently owned by organizations which have other interests in mass communications: Newspaper interests, motion picture interests and manufacturers of radio and television equipment. Methods to relay broadcasts from U.S.A. across the Atlantic to Europe are under discussion, but their practical realization appears to be a long way off, and the considerable time differential stand in the way of the development of a direct relay system. In the meantime must be used film and the recording of the television picture on magnetic tape, which has been developed to the stage where it is now possible to record live television electronically and retransmit a clear picture from the recording.

Stations: 100 kW and more.

Stations	Call.	Ch.	kW	Stations	Call.	Ch.	kW
ALABAMA				DELAWARE			
Birmingham	WBRC	A-6	100	Dover	WHRN	A-40	195
Mobile	WALA	A-10	316	Wilmington	WDEL	A-7	480
-	WKAB	A-48	270	DO. COLUMBIA			
ARIZONA				Washington	WNBW	A-4	100
Phoenix	KOY	A-10	316	FLORIDA			
-	KOOL	A-10	316	Ft. Lauderdale	WFTL	A-23	100
Tucson	KOPO	A-13	316	Jacksonville	WMBR	A-4	100
ARKANSAS				Jacksonville	WJHP	A-36	275
Fort Smith	KFSA	A-22	265	GEORGIA			
Little Rock	KARK	A-4	100	Atlanta	WSB	A-2	100
CALIFORNIA				-	WAGA	A-5	100
Salinas	KICU	A-28	105	Macon	WETV	A-47	170
S. Francisco	KRON	A-4	100	Savannah	WTOC	A-11	150
-	KPIX	A-5	100	Valdosta	WGOV	A-37	100
-	KGO	A-7	316	Warner Rob.	WMAZ	A-13	250
-	KVIE	A-48	107	ILLINOIS			
Stockton	KTVV	A-36	100	Belleville	WTVI	A-54	205
Fresno	KMJ	A-24	105	Floria	WEEK	A-43	175
-	KJEO	A-47	210	Chicago	WNBQ	A-5	100
Los Angeles	KTTV	A-11	135	-	WBKB	A-7	316
COLORADO				-	WGN	A-9	316
Colo. Springs	KKTU	A-11	250	-	WIND	A-20	1000
Denver	KFEL	A-2	100	-	WHFC	A-26	220
-	KBTU	A-9	282	Rock Island	WHBF	A-4	100
-	KLZ	A-7	316	INDIANA			
-	KDEN	A-26	110	South Bend	WSBT	A-34	170
CONNECTICUT				Bloomington	WTTV	A-4	100
Bridgeport	WICC	A-43	180	IOWA			
-	WSJL	A-49	100	Ames	WOI	A-5	100
Waterburg	WATR	A-53	245	Des Moines	KGTV	A-17	162
N. Britain	WKNB	A-30	155	KANSAS			

Stations	Call.	Ch.	kW	Stations	Call.	Ch.	kW
Hutchinson	KTVH	A-12	180	Greensboro	WCOG	A-57	115
Wichita	KEDD	A-16	204	Raleigh	WNAO	A-28	280
Pittsburg	KOAM	A-7	105	Winston-Sal.	WTOB	A-26	100
Topeka	WIBW	A-13	100	OHIO			
KENTUCKY				Akron	WAKR	A-49	180
Ashland	WPTV	A-59	250	Cincinnati	WLWT	A-5	100
Louisville	WAVE	A-3	10	-	WCPO	A-9	316
-	WHAS	A-11	316	-	WKRC	A-12	316
LOUISIANA				Cleveland	WNBK	A-3	100
Baton Rouge	WAFB	A-28	225	Columbus	WLWC	A-4	100
MASSACHUSETTS				-	WBNS	A-10	219
Boston	WBZ	A-4	100	Dayton	WIFE	A-22	257
Holyoke	WHYN	A-55	180	Massillon	WMAC	A-23	100
Springfield	WWLP	A-61	150	Youngstown	WKBN	A-27	160
Worcester	WNAC	A-7	220	-	WFMJ	A-73	175
Brockton	-	A-62	195	OKLAHOMA			
MICHIGAN				Okla. City	KWT	A-9	316
E. Lansing	WKAR	A-60	245	OREGON			
Muskegon	WTVM	A-35	270	Portland	KOIN	A-6	100
Battle Creek	WBKZ	A-64	110	Salem	KPIC	A-24	166
Cadillac	WWTU	A-13	316	PENNSYLVANIA			
Detroit	WJBK	A-2	100	Altoona	WFBG	A-10	316
-	WWJ	A-4	100	Harrisburg	WHP	A-55	240
-	WXYZ	A-7	316	-	WTPA	A-71	175
Grand Rapids	WOOD	A-8	316	Reading	WEEU	A-33	165
Lansing	WJIM	A-6	100	-	WHUM	A-61	260
MINNESOTA				Scranton	WGBI	A-22	178
Rochester	KROC	A-10	105	Philadelphia	WPTZ	A-3	100
Minneapolis	WTCN	A-11	316	Wilkes-Barre	WBRE	A-28	1000
St. Paul	KSTP	A-5	100	Pittsburgh	WKJF	A-53	174
-	WMIN	A-11	316	Pittsburgh	WDTV	A-2	100
MISSISSIPPI				Wilkes-Barre	WILK	A-34	170
Jackson	WJTV	A-25	180	-	WENS	A-16	200
Columbus	WCBI	A-28	210	York	WSBA	A-43	170
MISSOURI				Philadelphia	WFIL	A-6	100
Festus	KACY	A-14	234	York	WNOW	A-49	100
Hannibal	KHQA	A-7	269	RHODE ISLANDS			
Kansas City	KCMO	A-5	100	Providence	WJAR	A-11	316
-	KMBC	A-9	316	SOUTH CAROLINA			
-	WHB	A-9	316	Charleston	WCSC	A-5	100
-	WDAF	A-4	100	Columbia	WIS	A-10	269
St. Louis	KSD	A-5	100	-	WNOK	A-49	741
St. Louis	KSTM	A-36	215	TENNESSEE			
NEBRASKA				Chattanooga	WTVT	A-43	240
Omaha	KMTV	A-3	100	Johnson City	WJHL	A-11	105
-	WOW	A-6	100	Memphis	WHBQ	A-13	316
NEW JERSEY				TEXAS			
Newark	WATV	A-13	180	Amarillo	KGNC	A-4	100
N. Brunswick	WTLV	A-19	105	Tyler	KETX	A-19	270
NEW MEXICO				Austria	KTBC	A-7	100
Roswell	KSWs	A-8	115	Dallas	KRLD	A-4	100
NEW YORK				Galveston	KGUL	A-11	235
Binghamton	WQTV	A-46	100	Houston	KPRC	A-2	100
-	WBNF	A-12	310	S. Antonio	WOAI	A-4	100
Buffalo	WBUF	A-17	100	VIRGINIA			
Jamestown	WJTN	A-58	100	Hampton	WVEC	A-15	220
New York	WABC	A-7	110	Marion	WMEV	A-50	110
-	WOR	A-9	130	Roanoke	WSLS	A-10	295
-	WCBS	A-2	100	WASHINGTON			
-	WGTU	A-25	205	Spokane	KHQ	A-6	100
-	WPIX	A-11	100	Tacoma	KTNT	A-11	125
Rochester	WHAM	A-5	100	-	KOMO	A-13	100
Schenectady	WRGB	A-6	100	WEST VIRGINIA			
Syracuse	WHEN	A-8	190	Charleston	WKNA	A-49	225
-	WSYR	A-3	100	WISCONSIN			
Watertown	WNY	A-48	178	Milwaukee	WTMJ	A-4	100
NORTH CAROLINA				Green Bay	WBAY	A-2	100
Charlotte	WBTV	A-3	100	Milwaukee	WCAN	A-25	195

A M E R I C A (Central)**CUBA**

RT=R. Television El Mundo. UR=Union R. Television. CMQ=Circuito CMQ. RU=Cia R. Universal. TC=Television del Caribe. CA=Cadena Azul de Cuba. CO=Cadena Oriental. Stations: 5 kW.

Habana:	Las Villas	S. Clara:	Oriente:
CMA A-2 RT	A-3 RT	CMKU A-2 CMQ*	
CMUR A-4 UR	CMHQ A-5 CMQ	CMKJ A-4 CMQ**	
CMQ A-6 CMQ	A-8 UR	A-5 RT*	
CMQ A-7 RU	A-10 CA	A-7 UR*	
A-11 TC	Gamaguey:	A-8 UR**	
CBMF A-7 CMQ	A-2 RT	A-9 CA*	
Montanaz:		A-10 CA**	
CMGQ A-9 CMQ	CMJL A-6 CMQ	A-11 CO*	
A-13 RT	A-9 CA***	A-12 RT**	

*) Stgo. Cuba. **) Holguin. ***) Florida.

Addresses: Circuito CMQ, Radiocentro, 23 y M Vedado, Habana. - Radio Television El Mundo, 25 y O Edificio Ambar Motor. - Union Radio Television, Mazon 52, Habana. - Television del Caribe, S.A., Av. del Rio Almendares, Habana. - Radio Universal S.A., Radiocentro, Habana.

Daily Programmes: CMBF: 15.00-17.00, 18.00-03.00.

CMQ: 14.00-05.00. Union Radio: 16.00-05.00.

DOMINICAN REP (Commercial)

Address: La Voz Dominicana, Ciudad Trujillo. **Station:** Ch. A-4 16/8 kW.

MEXICO (Commercial)

XELD-TV, TELEVISION DE MATAMORES S.A.

Address: Station XELD-TV, Matamoros or 1111 SE Levee Street, Brownsville, Texas, U.S.A. **Station:** Ch. A-7 2.8/2.4 kW.

XEQ-TV, R. Panamericana, XEW-TV Cadena Radiod., Mexicana S.A.

Address: Telecentro, Av. Chapultepee 26, Mexico D.F. **Leading Personality:** Owner Emilio Azcarraga. **Stations:** XEQ Ch A-9 5 kW. - XEW Ch A-2 50 kW. **Daily Progr.:** 22.00-06.00.

XHTV - Television de Mexico.

Address: Edificio de la Loteria Nacional, Plaza de la Reforma 2, Mexico. **Leading Personality:** Owner: R. O'Farril. **Station:** Ch A-4 5 kW.

XHGC-TV Television Gonzales Camerena S.A.

Address: José Maria Marroqui Nr. 11, Mexico D.F.

Station: XEGC-TV Ch A-5 1 kW.

XETV Radio Television S.A.

Address: Bravo y Lerma, Colonia Marron, Tijuana.

Station: XETV, Ch A-6 5 kW.

PUERTO RICO (United States Administration)

Address: El Mundo Broadcast. Corp., Box 1072, San Juan.

Station: WKAQ-TV Ch A-2 100/50 kW.

AMERICA (South)

ARGENTINA

LR3-TV Radio Belgrano

Address: Radio Belgrano y Primera Cadena Argentina de Broadcasting S.A., Alvear Palace Building, Buenos Aires. **Stations:** LR3-TV Ch A-7 45 5/3 kW 19.30-02.00 The definition 625 is used but with exceptions: number of lines 625 and frame frequency 50 and 6 Mc/s band width.

LR1-TV RADIO EL MUNDO

LR1-TV Ch A-5 5/2.5 kW. Four new stations planned.

BRAZIL

EMISSORAS ASSOCIADAS (Commercial)

Address: Sumaré, Sao Paulo. **Leading Personality:** Owner: A. Cha-teaubriand. **Station:** PRF3-TV Ch A-3 5/2.5 kW.

RADIO TUPI COMP. (Owner Emissoras Associadas) Comm.

Address: Avenida Venezuela 43, Rio de Janeiro. **Station:** PRG3-TV Ch A-6 21.2/12.7 kW. In Bele Horizonte 20 kW st. (Ch A-4) under constr.

RADIO TELEVISAO PAULISTA (Commercial)

Address: Av. Reboubas 58-62, Sao Paulo. **Station:** RPT Ch A-5 15 kW.

RADIO ROQUETE PINTO (Educational)

Address: Avenida Almirante Barroso 81 12 andar, Rio de Janeiro. **Station:** Ch A-2 25 kW. **Daily Programmes:** In the morning two hours lessons. In the afternoon two hours for children and housewives. In the evening theatre, music, discussions, actuelles etc.

RADIO RECORD (Emissoras Unidas)

Address: Palacio Colonial, Camino del Aeropuerto, Sao Paulo. - **Station:** Ch A-7 10 kW.

RADIO BANDEIRANTES RIO DE JANEIRO

Station: PR9-TV Ch A-13 10/9 kW under constr. ready Dec. 1954.

URUGUAY

Address: SODRE (Servicio Oficial de Difusion Radio Electrica), Mercedes No. 973, Montevideo. - **Station:** Ch 6 5/2.5 kW under construction.

VENEZUELA (Government and commercial).

Yvka-Tv Govt. Station

Address: The Ministry of Communications of the National Govt. - **Station:** YVKA-TV Ch A-5 37.2/18.6 kW.

Television Venezolana S.A., Caracas. President: Gonzalo V. Mancera. - **Station:** YVLV-TV Ch A-4 5/3 kW.

Radio Caracas

Station: YVKS-TV Ch A-7 37.2/18.6 kW. Under constr. - **Projected stations:** R. Continente one station in Caracas. Radio Popular Televisione S. A. and the Company Televisa of Caracas one station in Maracaibo.

ASIA

JAPAN

NIPPON HOSO KYOKAI (Broadc. Corpo. of Japan) Govt.

Address: Radio Tokyo Building, Tokyo.

Leading Personalities: Chief Television Dept.: Yoshio Yoshikawa.

Chief Television Culture Research Inst.: Shigeru Nakamura.

Stations:

Tokyo-TV JOAK-TV J-3 5/2.5 kW.

Osaka-TV JOBK-TV J-3 5/2.5 - Projected.

Nagoya-TV J-3 0.5/0.25 - Projected.

Daily Programmes: Broadcast 4 hours daily: 03.00-04.30, 09.30-12.00. News, culture 53%, entertainment 47%. - **Future-Plans:** Television

stations expected to be established in: 1955 five 5 kW, five 3 kW stations. 1956 six 3 kW, four 1 kW stations. 1957 four 3 kW, five 1 kW stations.

NIPPON TELEVISION NETWORK CORPO. (NTV)

(Nippon Terebi Hosomo K. K.) Commercial.

Address:

Leading Personalities: President: M. Shoriki. Managing Director: Y. Shimizu.

Stations:

Tokyo NTV JOAX-TV Ch J-4 10/5 kW.

Daily Programmes: 4 hours daily.

RADIO TOKYO K. K. (Commercial).

Leading Personalities: President: T. Adachi. Managing Director: Y. Shikakura.

Stations: R. Tokyo J-6 10/5 kW.

Projected 1954, opens January.

Daily Programmes: Broadcast six hours daily.

INDIA: Proposal for an experimental transmitter.

THAILAND: Experimental station at Chulalongkorn University, Bangkok. Under construction: A 10 kW Govt.-station.

TURKEY: The Govt. has planned to establish 25 kW stations in Ankara, Istanbul and Izmir. An experimental station exists at the Technical University of Istanbul: 62.25 (vision) and 67.75 (sound) Mc/s and which broadcasts Fri. 15.00-16.00.

PACIFIC

HAWAII (Commercial).

Honolulu KABS 3) Ch. A-4 58 kW; KGMB 1) Ch. A-9 35 kW; KONA 2) Ch. A-11 125 kW under construction.

1) Hawaiian Broadc. Co. 2) Radio Honolulu Ltd. 3) American Broadc. Station, Inc.

PHILIPPINES (Government and Commercial).

The Govt. has planned to establish 3 high power television stations in Manila, Visayas, Mindanao. The Bolinao Electronics Corpo., P.O. Box 1344 Manila, has planned establishment of a commercial TV station ch 60-66 Mc/s 7.2/3.6 kW.

EUROPE

AUSTRIA (Government): Technical experiments. No regular programmes. Plans: Wien (2 stations), Bregenz, Graz, Innsbruck, Klagenfurt, Linz, Salzburg. Ch E-2 to E-10.

BELGIUM (Government): The broadcast standard incorporates the two definitions 625 lines (Flemish) and 819 lines (French).

Address: Institut National Belge de Radiodiffusion, 18 Place Eugene Flagey, Bruxelles.

Brussel Ch E- 8 819 lines 1/0.5 kW French D.: 19.30-21.30 exc. Fri. - Ch E-10 625 - 1/0.5 - Flemish D.: 18.30-20.30 exc. Mo.

1954: Antwerp 0.5 kW 625 lines 48.25 Mc/s; Liège 0.5 kW 819 lines 55.25 Mc/s. - Brussels will be linked with Liège and Antwerp by radio relay.

CZECHOSLOVAKIA (Government).

Address: Chskoslovensky Rozhlas, 12 Stalinova, Prague XII. - **Station:** Prague RII experimental.

DENMARK

Address: Television-Department, State Broadcast, Radiohuset, Rosenørnsalle, Copenhagen.

Leading Personality: Chief of Programmes: J. Fr. Lawaetz.

Copenhagen Ch E-4 vision 0.5 audio 0.2 kW

Daily Programmes: Tues., Thurs., Sat. 19.00-20.00. Mo., Wedn., Fri. 14.00-15.00.

8 stations planned in Ch. E-3 - E-10 (Copenhagen, Aarhus, Odense).

FRANCE (Government).

Address: Relations Internationales de la Télévision, Radiodiffusion-Télévision Française, 107 rue de Grenelle, Paris 7e.

Leading Personalities: Director of Television Programmes: M. D'Arcy.

Stations: kW

	def.	ch.	vision	audio	
Paris I	441	F-1	25	5	Eiffel Tower
-	819	F-8	10	2.5	-
Lille	819	F-8	10	2.5	City Tower
Strasbourg	819	F-5	20	5	
Lyon 1)	819	F-13	20	5	
Marseille 2)	819	F-9	20	5	

Relay Facilities: Paris-Lille, Paris-Strasbourg, Lyon-Marseille.

1) July 1954. 2) Autumn 1954.

Daily Progr.: Paris I, II, Lille, Strasbourg: Weekdays: 11.45 Télé-Paris - 12.15 Journal Télévisé - 13.00 La Télévision à l'école (Mo., Wedn., Fri.) - 16.00 For children (Thurs.) - 16.00 Kermesse aux Etoiles (twice monthly Sat.) - 19.30 Journal Télévisé - 19.45-21.30 Variety, music etc. - Sundays: 09.30 Religious - 11.00 Journal Télévisé - 14.00 Actualités - 16.00 Film - 17.30 Variety - 19.30 Journal Télévisé - 19.45 Magazine - 20.00 Variety, Play - 20.40-22.10 Film.

GERMANY

GERMAN DEMOCRATIC REPUBLIC (Government).

(Staattliches Rundfunk-Komitee).

Address: Fernsehzentrum, Berlin. - **Leading Personality:** Hermann Zilles.

Station: Experimental.

vision sound

Berlin 99.9 106.4 Mc/s 2 kW: W.: 19.00-21.00. Sun.: 18.00-20.00.
Future-Plans: 6 stations planned in Ch R-1 - RIII, R-6 - R-9: Dresden, Leipzig, Erfurt, Salzwedel, Stralsund.

GERMAN FEDERAL REPUBLIC

Televisions has been developed by the various radio organizations (Rundfunkanstalten) and particularly the Nordwestdeutscher Rundfunk.

Relay Facilities for the German television network are constructed by the German postal authorities:

1) Hamburg-Köln with intermediary transmitters at Hannover and Langenberg, a link which uses eight relay towers.

2) a special pick-up at Hamburg for broadcasts to and from Berlin and their relay to and from Hamburg.

3) Continuation of the Hamburg-Köln link to Frankfurt, Stuttgart, Munich and Baden-Baden.

The same programme for all broadcasting organizations in West-Germany. 50% from NWDR, 20% from Bayerischer Rundfunk and 30% from the other organizations

NORDWESTDEUTSCHER RUNDUNK

Address: Hamburg: Gazellenkamp 57, Hamburg-Lockstedt. Berlin: Funkhaus, Heidelbergerplatz 3, Berlin-Wilmersdorf. - Leading Personalities: Intendant: Dr. W. Pleister. Chief of Programmes: Heinz von Plato. Chief-Editor: K. Besser. Chief of Plays: H. Farenburg. Administrator: H. J. Hessling. Chief-Engineer: Dr. W. Schwarz. Chief of Press Dept.: K. Mahlo. - Stations: Berlin E-7 1/0.2 kW, Hannover E-8 1/0.2 kW, Langenberg E-7 10/2 kW, Hamburg E-9 10/2 kW, Köln E-9 1/0.2 kW.

Daily Progr.: D.: 19.00-appr. 21.30. Tues. 15.00-15.30 For children. Sun.: 11.00-11.30, 14.00-16.00 Actualities. For manufacturers of television-receivers: W.: 09.00-10.00, 15.30-17.00. Following stations are planned: Hannover from 1 to 10 kW, Bielefeld 10 kW, Schleswig Holstein 1 kW, Bremen-Oldenburg 10 kW.

HESSISCHER RUNDUNK

Address: Hessischer Rundfunk, Bertramstrasse 8, Frankfurt A/M. Leading Personality: Wolfgang Pahl. Station: Feldberg Ch. 8 100/20 kW. In service 1954 Hoher Meissner ch E7 100/20 kW.

Daily Progr.: Relay NWDR and occasionally local programmes.

SYDWESTFUNK (Abteilung Fernsehen)

Address: Moltkesstrasse 5, Baden-Baden. - Leading Personalities: Roderich Dietze. - Produktionschef: Kurt Hinzmann - Regieaufgaben: Peter A. Horn - Aktuelle Berichterstattung: Dr. Wolfgang Brobeil. Stations: Baden-Baden Ch 10 50/10 kW. - Freiburg Ch 7 0,05/0,01 kW - Kaiserslautern Ch 7 0,05/0,01 kW - Koblenz Ch 6 0,05/0,01 kW - Pirmasens Ch 6 0,05/0,01 kW - Weinbiet Ch. 10 100/20 kW - Zweibrücken Ch 7 0,05/0,01 kW. Daily Progr.: Relay NWDR and occasionally local programmes.

SYDDEUTSCHER RUNDUNK

Address: Neckarstrasse 145, Stuttgart. - Leading Personality: Dr. Helmut Jedele. - Station: Stuttgart Ch. E-4 100 kW (under construction). - Television-broadcast may 1954.

BAYERISCHER RUNDUNK

Address: Bayerischer Rundfunk, Rundfunkplatz, München. - Leading Personalities: Director: Dr. Clemens Münster. Chief-Engineer: Dr. J. Goldmann. - Under construction: Wendelstein Ch. E-10 10/3 kW. Autumn 1954 three hours daily.

GT. BRITAIN

Address: The British Broadcasting Corpo. - Leading Personalities: Director of Television: G. R. Barnes. Controller of Television Programmes: C. McGivern.

Stations:	Ch.	kW	Ch.	kW
Brighton	B-3	1/0.25	London	B-1 17/3
Glouceairn	B-1	1/0.25	Pontop Pike	B-5 1/0.25
Holme Moss	B-2	45/12	Sutton Coldfield	B-4 45/12
Kirk o'Shotts	B-3	50/12	Wenvoe Cardiff	B-5 50/12

Under construction: Aberdeen Ch. B-4 10 kW, Channel Islands Ch. B-4 10 kW, Isle of Man Ch. B-4 10 kW, Isle of Wight Ch. B-3 10 kW, Plymouth Ch. B-2 10 kW.

Daily Programmes: All stations are interconnected by cables or relay links and transmit the same programme. 10.00-11.00 Childrens Newsreel (Sat. only). Mo.-Fri. film projecting for the receiver trade. 14.15-15.15 Women's progr. 16.00-16.40 Childrens Television (16.30-17.30 in the winter). 19.00-19.15 Newsreel (Sat. 18.15-18.30) 19.15-appr. 21.30.

ITALY

Address: RAI Radio Audizioni Italia, via Arsenale 21, Torino. Leading Personalities: Director of Programmes: Dott. S. Pugliese. Chief-Engineer: Ing. S. Bertolotti.

Torino	Ch.	4a	15 kW	Monte Serra	Ch.	5	200 kW
Milano	-	8a	30	Monte Peglia	-	10	20
Monte Penice	-	4	100	Roma	-	8a	100
Portofino	-	10	100				

Daily programmes: 09.00-11.00, 16.00-18.00, 20.00-22.00.

Under Construction: Monte Venda Ch. 5 100 kW - Trieste Ch. 3 15 kW Firenze Ch. 8a 10 kW.

Relay Facilities: All the transmitters are linked by radio relay with Turin, Milan and Rome.

NETHERLANDS

Address: Nederlandse Televisie Stichting (The Dutch Television Foundation). Postbus 100, Hilversum. Cable: Televisie. - Leading Personalities: President: Prof. Dr. J. B. Kors O. P. Vice-President: A. H. van de Veen. Secretary: J. W. Pengelink. Treasurer: G. de Clercq. Station: Lopik Ch. E-4 5/3 kW Tues., Fri. 19.15-20.45.

A small 1 kW experimental transmitter is operating on ch. 1 in the Philips factory in Eindhoven. Four stations planned in: Ch. E-2-E-10 Groningen, Enschede, Goes, Roermond. - Relay Facilities: A temporary radio relay has been set up to link Lopik with Antwerp Belgium.

NORWAY

An experimental station will be established in Oslo in the near future.

POLAND

Station: Warsaw 89.25 (vision) 95.75 (sound) Mc/s exp.

SAAR

Saarländische Fernseh A-G. Definition 819 ch F 7 0.1/0.05 kW Experimental. Under constr. Leading Personalities: Fr. Billmann, H. de France.

SPAIN

Address: Ministerio de Informacion y Turismo, Direccion General de Radiodifusion, Avenida de la Habana 77, Chamartin, Madrid. Station: Ch. E-3 0.2 kW experimental. - Tues., Thurs., Sat. 20.00-21.00.

SWEDEN (Government).

Address: The Royal Television Commission, Radiotjänst, Kungsgatan 8, Stockholm. - Leading Personality: Secretary: Henrik Hahr. Stations:

Stockholm Ch. E-4 1 kW exper. Wedn. 13.00-15.00.

- E-5 5 - -

Plan: Two stations Stockholm (60 kW) and Uppsala are planned for an experimental period (Dec. 1955).

SWITZERLAND

Address: Société Suisse de Radiodiffusion, Neuengasse 30, Bern.

Leading Personality: Director: M. Edouard Haas.

Stations: Uetliberg (Zürich) Ch. E-3 5/1 kW exper. 3 hours weekly.

UNION OF SOVJET SOCIALIST REPUBLICS

Stations: Definition 625 lines Sovjet.

Moscow R-II 20 kW Kiev R-IV 20 kW

Leningrad R-III 20 -

Under construction: Transmitters at Sverdlovsk and Stalingrad. Plan: 76 stations planned.

YUGOSLAVIA

Station: Belgrade Ch. 47 54 Mc/s 1 kW experimental.

UNITED NATIONS

The United Nations, while possessing no transmitter, have their own television cameras to produce live programmes and kinescopes of these programmes. The United Nations Radio Division covers through live pick-up the proceedings of the General Assembly and its principal committees. These proceedings are relayed directly by stations in the United States and made available in kinescope digest form to television stations elsewhere.

COOPERATING SHORT WAVE CLUBS

Belgium: Union Belgian Amateur (UBA), P.O. Box 634, Brussels.

Denmark: Danish Short Wave Club, World Radio Handbook, Lindorffs Allé 1, Hellerup. "Det nye Radioblade" DX Club, Vigerslev Allé, Valby.

Finland: Brando DX Club, Silversundsvägen 48, Brandö, Helsinki. France: Club des Auditeurs de la Radio Mondiale (Carm.), 1 rue Pasteur, Juvisy-sur-Orge, Seine-et-Oise.

Gt. Britain: International Short Wave Club, 100 Adams Gardens Estate, London SE 16. The International Short Wave League, 86 Barrenger Road, London N 10.

New Zealand: N.Z. DX Radio Association (Inc.), 20 Marion St., Wellington C 2 (Publication "Tune in", 236 Blenheim Rd., Riccarton W2). N.Z. Radio DX League, Headquarter, 15 Plunket St., Dunedin S. 2. Official Organ "New Zealand DX-Times", 111 Tay Street, Invercargill.

Norway: Arctic Listeners' Club, Tromsø.

Saar: Kurzwellen-Amateur-Club, Box 310, Saarbrücken, Saar.

Sweden: DX Club QRV, c/o Göran Ross, Lötgatan 1, Eskilstuna. Eksjö DX-Club, Spelmansgatan 11, Eksjö. Göteborgs DX Klubb (Bertil Thörner), Ocherögatan 3A, Göteborg W. Malmö Kortvägsklubb (Malmö Short Wave Club), (Åke Johansson). Postfack 7026, Malmö 7. Radioklubben Universal, Klörupsvägen 144, Trelleborg.

Scandinavian DX Club, Postbox 20038, Stockholm. Sveriges Radioklubb (Swedish Radio Club), Box 5083, Stockholm 5. Teknikens Världs Radioklubb, Sveavägen 53, Stockholm.

U.S.A.: Newark News Radio Club, 215 Market Street, Newark, Jersey (covers all DX: SW, Ham, BCB etc.).

The National Radio Club, P.O. Box 38, Kensington Station, Buffalo 15, New York. (Harold Wagner, R.D. No. 1, North Girard, Penna.) United 49ers Radio Society, 28 Eisenhower Drive, New Britain, Conn. (covers SW, Ham). Universal DX Club, 21446 Birch St., Hayward Calif. (covers SW, Ham). "On the air" Bruce Cushman, 133 Summer Street, Kingston, Massachusetts.

LONG- AND MEDIUM WAVE STATIONS

EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
151	1986	50	Hamburg — Germany	616	487	0.1	Bad Aussee — Austria Br. Z.
155	1935	10	Tromsø — Norway	620	483.9	20	Cairo II — Egypt
155	1935	150	Romania — Rumania	620	483.9	150	Brussels N. — Belgium
155	1935		Moscow — U.S.S.R.	624	483	0.1	Radentheim — Austria Br. Z.
164	1829	250	Allois — France	629	477	0.05	Greifenburg — Austria Br. Z.
173	1734	1000	Munich C. (VOA) — Germany	629	477	15	Innsbruck I — Austria
173	1734		Moscow — U.S.S.R.	629	477	0.05	Kitzbühel — Austria
182	1648	100	Reykjavik TFU — Iceland	629	476.9	12	Dornbirn — Austria
182	1648.4	10	Luleå — Sweden	629	477	100	Vigra — Norway
182	1648		Novosibirsk — U.S.S.R.	629	476.9	20	Tunis I — Tunisia
182	1648	120	Ankara TAR — Turkey	633	475	1	Godthåb R. OXI — Greenland
185	1622	100	Deutschlandsender — Germany	635	472	7.5	Sharq al Adna — Cyprus
191	1571		Tbilisi — U.S.S.R.	638	471	5	Sevilla — Spain
191	1570.7	150	Motala — Sweden	638	470.2	120	Nat. Netw. Prague — Czechoslovakia
200	1500		Moscow — U.S.S.R.	647	464	150	Daventry — Gt. Britain
200	1500	400	Droitwich — Gt. Britain	647	464	2	Edinburgh — Gt. Britain
209	1435	150	Kiev — U.S.S.R.	647	464	2	Glasgow — Gt. Britain
218	1376		Baku — U.S.S.R.	647	464	2	Newcastle — Gt. Britain
218	1376	100	Oslo — Norway	647	464	2	Redmoss — Gt. Britain
227	1322	200	Warsaw — Poland	647	464		Kharkov — U.S.S.R.
233	1287	150	R. Luxembourg I — Luxembourg	652.1	460	1	Tel-Aviv 4XB47 — Israel
236	1271		Moscow — U.S.S.R.	656	457.3	20	Bolzano I — Italy
236	1271		Leningrad — U.S.S.R.	656	457.3	80	Firenze I — Italy
245	1224	60	Kalundborg I — Denmark	656	457.3	80	Napoli I — Italy
254	1181	200	Lathi — Finland	656	457.3	35	Torino I — Italy
254	1181		Tashkent — U.S.S.R.	656	457.3	10	Venezia I — Italy
263	1141		Krasnojarsk — U.S.S.R.	656	457		Murmansk — U.S.S.R.
272	1103	10	Czechoslovakia — Czechoslovakia	660	454.5	20	R. Kabul — Afghanistan
272	1103		Alma Ata — U.S.S.R.	665	451	10	Bayreuth AFN — Germany
281	1068		Minsk — U.S.S.R.	665	451	5	Kaiserlautern AFN — Germany
385	779		Charkov — U.S.S.R.	665	451	15	Graz I — Austria Br. Z.
400	750		Taschkent — U.S.S.R.	665	451.2	15	Athens II — Greece
420	714	10	Östersund — Sweden	665	451.2	1	Hoefn — Iceland
433	693	10	Oulu (Uleåborg) — Finland	665	451	50	Lisboa I — Portugal
511	587	0.05	Hermagor — Austria Br. Z.	665	451		Vilnius — U.S.S.R.
519	578	0.025	Reutte — Austria Fr. Z.	665	451.2	50	Damascus — Syria
520	578	0.2	Graz II — Austria Br. Z.	674	445	5	Salzburg BDN — Austria Am. Z.
520	578	0.2	Innsbruck II — Austria Fr. Z.	674	445	100	Rennes I — France
520	578	0.025	Landeck — Austria Fr. Z.	674	445.1	10	Bodö — Norway
520	576.9	1	Hamar — Norway	677	443	20	Hashemite Jordan — Transjordan
520	577	1	Joensuu — Finland	683	439.2	1.25	R. Africa — Tangier
520	577	0.2	Bayreuth — Germany	683	439	150	Beograd — Yugoslavia
520	577	5	Nürnberg — Germany	692	434	0.015	Admont — Austria Br. Z.
529	567.1	150	Beromünster — Switzerland	692	434	0.1	Villach — Austria Br. Z.
539	556.5	135	R. Kossuth — Hungary	692	434	10	Cyprus Br. Service, Nicosia — Cyprus
548	547.4	100	Munich AFN — Germany	692	434	0.02	Zwettl — Austria
548	547.5		Moscow — U.S.S.R.	692	434	150	Moorside Edge — Gt. Britain
557	538.6	50	M. Ceneri — Switzerland	692	434	0.25	Whitehaven — Gt. Britain
557	539	100	Helsinki I — Finland	694	430	0.1	Spittal-Drau — Austria Br. Z.
565	531	1	Klagenfurt C. 12 FBS — Austria BFN Br. Z.	696.5	430	0.1	Bruck/Mur — Austria Br. Z.
565	531	1	Graz B/FBS — Austria BFN Br. Z.	701	428	20	La Coruna — Spain
566	530	0.25	Schönbrunn — Austria Br. Z.	701	427.8	2	Aachen — Germany
566	530	10	Caltanissetta I — Italy	701	427.8	2	Herford — Germany
566	530	0.025	Bludenz — Austria Fr. Z.	701	427.8	2	Osterloog — Germany
566	530	100	Athlone — Eire	701	427.8	1.5	Braunschweig — Germany
566	530	20/5	Berlin — Germany	701	428	150	Istanbul TAW — Turkey
575	521.7	50	Tel Aviv 4XB36 — Israel	701	428	120	Sebaa-Ayoun — Fr. Morocco
575	522	5	Pan American Radio — Tel Aviv	701	428	20	Finmark — Norway
575	522	100	Mühlacker — Germany	710	422	100	Marseille I — France
575	521.7	20	Berlin I — Germany	710	422		Stalino — U.S.S.R.
575	522		Riga — U.S.S.R.	710	422		Tallin II — U.S.S.R.
584	513	35	Wien I — Austria	714	420	0.05	Obervillach — Austria Br. Z.
584	514	1	Paris Grenelle — France	719	417.2	0.1	Lienz — Austria Br. Z.
593	505	15	R. Madrid EAJ7 — Spain	719	417.2	135	R. Free Europe — Germany
593	505.9	150	Sundsvall — Sweden	719	417	15	Lisboa II — Portugal
593	505.8	100	Frankfurt H. R. — Germany	719	417.2	20	Aleppo — Syria
593	505.8	20	Meissner H. R. — Germany	725	413.8	3	Djeddah — Saudi Arabia
593	506	20	Sofia II — Bulgaria	728	412	7	Klagenfurt I — Austria Br. Z.
602	498	100	Lyon I — France	728	412	50	Athens I — Greece
602	500.2	2	Damascus — Syria	728	412.1	20	Berlin III — Germany
606	495	1	Lakatanania BFBS — Cyprus	732	409	0.1	Kötschach — Austria Br. Z.
611	491.0	10	Nürnberg AFN — Germany	733	388.1	0.2	Malmberget — Sweden
611	491	120	Sebaa-Ayoun — Fr. Morocco	737	407.1	40	Hof-Rias — Germany
611	491	5	Eider TFE — Iceland	737	407	2.5	Jerusalem 4XB34 — Israel
611	491	20	Berlin III — Germany	737	407.1	5	Akureyri — Iceland
611	491		Petrozavodsk — U.S.S.R.	737	407.1	50	Warsaw — Poland
611	491		Frunze — U.S.S.R.	737	407.1	120	Madrid National — Spain
611	491	20	Sarajevo — Yugoslavia	737	407		Stalinograd — U.S.S.R.
615	487	0.1	Eisenerz — Austria Br. Z.	746	402	120	Lopik I — Holland
615	487	0.1	Murau — Austria Br. Z.	755	397.4	100	Vienna RWR — Austria Am. Z.

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
755	397	20	Kuopio - Finland	971	309.0	5	Göttingen - Germany
755	397.3	50	Timisoara II - Rumania	971	309.0	50	Hamburg - Germany
755	397	10	Porto I - Portugal	971	309.0	50	Langenberg - Germany
755	397.3	1.5	Flensburg - Germany	980	306.1	75	Algiers I - Algier
755	397.3	2	Siegen - Germany	980	306.0	1	Assiout - Egypt
764	392.6	150	Sottens - Switzerland	980	306.1	2.5	Trieste II - Trieste
764	393		Rostow - U.S.S.R.	980	306.1	150	Gothenburg - Sweden
767	391.1	0.5	Baghdad R. St. - Iraq	989	303.3	300	Berlin RIAS - Germany
773	388	100	Linz RWR - Austria Am.Z.	998	301.0	8	Heidelberg-Dossenheim - Germany
773	388.1	7.5	R. Sevilla EAJ5 - Spain	998	301.0		Kichinev - U.S.S.R.
773	388.1	55	Stockholm - Sweden	1000	300.0	6	Malaga - Spain
773	388	2	Vatican Radio HV2 - Vatican State	1002	299.4	0.025	Kufstein - Austria Fr.Z.
773	388	50	Cairo I - Egypt	1006	298.2	1	Salonika, R. Thessalonika - Greece
782	383.6	300	Deutschlandsender - Germany	1007	298	120	Lopik II - Holland
782	383.6		Kiev - U.S.S.R.	1016	295.3	2	Berlin III - Germany
791	379	100	Limoges I - France	1016	295	70	Rheinsender - Germany
791	379.2	50	Salonika VOA - Greece	1022	293.5	5	Madrid R. Nacional - Spain
800	375	20	Berlin I - Germany	1025	292	100	Graz-Dobl - Austria
800	375	100	München - Germany	1025	292.7	1.5	R. San Sebastian - Spain
800	375	5/7.5	R. Barcelona EAJ1 - Spain	1034	290	5	Vienna BDN - Austria Am.Z.
800	375		Leningrad - U.S.S.R.	1034	290.2	0.25	Kassel AFN - Germany
809	371	100	Burghead - Gt. Britain	1034	290.2	0.25	Ansbach AFN - Germany
809	371	0.5	Dumfries - Gt. Britain	1034	290.2	0.25	Bad Kissingen AFN - Germany
809	371	5	Redmoss - Gt. Britain	1034	290.1	2	Genova 2 - Italy
809	371	100	Westerglen - Gt. Britain	1034	290.1	8	Milano 2 - Italy
809	370.8	20	Skopje - Yugoslavia	1034	290.1	5	Napoli 2 - Italy
809	370.8	0.8	Adrijoscina - Yugoslavia	1034	290.1	1	Pescara II - Italy
818	366.7	10	Trieste - Trieste	1034	290.1	1	Venezia 2 - Italy
818	366.7	100	Warsaw - Poland	1034	290		Tallinn - U.S.S.R.
826.9	362	100	Sofia I - Bulgaria	1034	290	20	R. Clube Portugues, Parede - Portugal
827	363	1.5	Baden-Baden - Germany	1038	289.1	0.025	Mayerhofen - Austria
827	363	18	Freiburg - Germany	1043	287.6	1	Rabat - Fr. Morocco
827	363	2	Kaiserlautern - Germany	1043	287.6	100	Berlin III - Germany
827	363	0.5	Koblenz - Germany	1043	287.6	2	Salonica - Greece
827	363	1	Sigmaringen - Germany	1052	285.0	0.05	Neunkirchen - Austria
827	363	1	Trier - Germany	1052	285.0	0.05	Krems - Austria
827	363		Kowno - U.S.S.R.	1052	285.0	2	Fremington - Gt. Britain
833	360.1		Berlin I - Germany	1052	285.0	120	Start Point - Gt. Britain
835	359	10	Ylivieska - Finland	1052	285.1	5	Bucuresti II - Rumania
836	359	100	Nancy I - France	1061	282	0.05	Liezen - Austria
836	359	4	R. Beirut - Lebanon	1061	283	60	Kalundborg II - Denmark
845	355	0.2	Helsinki III - Finland	1061	282.8	5	Cagliari I - Italy
845	355	150	Roma II - Italy	1070	280	0.05	Völkmarkt - Austria Br.Z.
850	352.9	2	Huelva - Spain	1070	280	100/20	Paris II/Marseille II - France
854	351.0	5	Berlin AFN - Germany	1070	280		Krasnodar - U.S.S.R.
854	351.0	0.25	Fulda AFN - Germany	1079	297.8	1	Minia - Egypt
854	351.3	150	Bucuresti I - Rumania	1079	278	2	Bremerhafen - Germany
854	351	3.5	Madrid EAJ2 - Spain	1079	278.1		Berlin III - Germany
863	348	100	Paris I - France	1079	278.0	50	Stalinograd - Poland
866	346	60	R. Andorra - Andorra	1088	275	10	Korca (Shkodra) - Albania
868	345	0.25	Vienna C13FBS - Austria	1088	275	0.05	Knittelfeld - Austria
868	345	0.25	Zeltweg C14FBS - Austria	1088	275	0.05	Kindberg - Austria
872	344.0	150	Frankfurt AFN - Germany	1088	275	0.05	Friesach - Austria Br.Z.
872	344.0	30	Zaragoza - Spain	1088	275	0.05	Wolfsberg - Austria Br.Z.
872	344.0		Moscow - U.S.S.R.	1088	275	0.04	Oberdraubürg - Austria Br.Z.
881	340.5	20	Titograd - Yugoslavia	1097	273.5	150	Bratislava - Czechoslovakia
881	340.5	1	Benghazi - Libya	1106	271.2	100	Stuttgart AFN - Germany
881	341	1	Linz BDN - Austria Am.Z.	1106	271		Moghilev - U.S.S.R.
881	341	8	Penmon - Gt. Britain	1088	276	150	Droitwich - Gt. Britain
881	341	5	Town - Gt. Britain	1088	276	7.5	Norwich - Gt. Britain
881	341	100	Washford - Gt. Britain	1115	269.1		Aosta 2 - Italy
881	341	0.25	Wrexham - Gt. Britain	1115	269.1	40	Bari 2 - Italy
885	339	0.05	Gmünd - Austria Br.Z.	1115	269.1	50	Bologna 2 - Italy
890	337.1	50	Algiers II - Algeria	1115	269.1	10	Pisa 2 - Italy
890	337	1	Zell am See BDN - Austria	1115	269.1	1	Bergen II - Norway
890	337.1	20	Bergen I - Norway	1115	269.1	0.25	Fåberg - Norway
890	337.1	20	Kristiansand - Norway	1115	269.1	0.3	Lista - Norway
890	337.1	20	Trøndelag - Norway	1115	269.1	1	Namsos - Norway
890	337		Dnepropetrovsk - U.S.S.R.	1115	269.1	1	Notodden - Norway
895	335.0	20	R. Teheran - Iran	1115	269.1	0.25	Röros - Norway
899	333.7	150	Milano I - Italy	1115	269.0	0.25	Arendal - Norway
904	331.8	5	R. Dersa Tetuan - Sp. Morocco	1115	269.0	0.025	Sulitjelma - Norway
908	330	140	Brookmans Park - Gt. Britain	1124	267	3	Barcelona EAJ15 - Spain
910	329.7	2	Berlin III - Germany	1124	267	0.05	Imst - Austria
917	327.2	10	Madrid - Spain	1124	266.9	10	Brussels R. - Belgium
917	327.1	135	Ljubljana - Yugoslavia	1124	267	5	Stalin (Varna) - Bulgaria
926	323.9	150	Brussels N. - Belgium	1124	266.9	0.1	Mürzzuschlag - Austria
935	321.0	15	R. Africa-Maghreb - Tangier	1124	267		Leningrad III - U.S.S.R.
935	321.0		Lviv - U.S.S.R.	1133	264.0	2.5	R. Bilbao EAJ28 - Spain
944	318	100	Toulouse I - France	1133	264	135	Zagreb I
944	318		Voronesh - U.S.S.R.	1142	267.7	20	Constantine I - Algeria
953	314.0	15/100/5	Pizen, Brno, Budejovice - Czechosl.	1142	262.7	1	Bremerhaven AFN - Germany
962	312	100	Turku I - Finland	1142	262.7	0.25	Würzburg AFN - Germany
962	312	5	Romainville - France	1142	262.7	0.25	Fussen AFN - Germany
962	312	0.4	Hof - Germany	1142	262.7	0.25	Hersfeld AFN - Germany
962	311.9	20/120	Tunis II - Tunisia	1142	262.7	0.25	Coburg AFN - Germany

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
1142	263		Kaliningrad - U.S.S.R.	1358	220.9	50	Tirana - Albania
1148	261.5		R. Ciudad Real EAJ65 - Spain	1358	221	20	Bremen - Germany
1151	260	0.1	Judenburg - Austria	1358	221	1	Faro - Portugal
1151	261	100	Lisnagarvey - Gt. Britain	1367	220	0.25	St. Johann BDN - Austria Am.Z.
1151	261	0.25	Londonderry - Gt. Britain	1367	219.4	1	Bonn BFN - Germany
1151	261	100	Stagshaw - Gt. Britain	1367	219.5	0.25/5	synchr. low power st. - Italy
1151	261	0.25	Scarborough - Gt. Britain	1367	219.5	50	Wroclaw - Poland
1151	260.9	20	Cluj - Rumania	1367	219.5	24	Bydgoszcz - Poland
1160	259	100	Strasbourg I - France	1367	219	1	Coimbra - Portugal
1169	256.6	6	R. Renascenca, Porto - Portugal	1367	219.5	0.5	Basel, Chur, Saviese, Sool - Switzerland
1169	257	5	Trieste Yugosliz - Trieste	1376	218	100	Lille I - France
1169	257.0	1	Ulm-Jungingen - Germany	1376	218.0	2	R. Coruna EAJ41 - Spain
1169	257.0	8	Heilbronn-Oberseesheim - Germany	1385	216.6	1	Trieste BFBS - Italy
1169	257.0		Odessa - U.S.S.R.	1385	216.6	1	Valencia R. Nac. - Spain
1178	254.7	100	Hörby - Sweden	1385	217		Kaunas - U.S.S.R.
1178	254	5	Pan American Radio - Tangier	1390	215.8	1	Jerusalem - Israel
1178	254	6	R. Capodistra - Trieste (Jugosl. Z.)	1394	215.2	0.05	Bad Ischl RWR - Austria Am.Z.
1186	253	0.06	Megara - Greece	1394	215.2	0.35	Windishgarsten RWR - Austria Am.Z.
1187	252.7	135	R. Petöfi - Hungary	1394	215.2	0.05	Radstadt RWR - Austria Am.Z.
1196	250.8	20	Berlin I - Germany	1394	215.2	0.25	Bitburg AFN - Germany
1196	251	150	Munich-A - Germany	1394	215.2	0.35	Straubing AFN - Germany
1200	250	0.8	R. Almeria (R. Seu) - Spain	1394	215.2	0.2/0.5	10 low power st. - Sweden
1205	247	0.5	R. La Coruna (R. Seu) - Spain	1403	214	20	Bordeaux II - France
1205	249	100	Bordeaux I - France	1403	214	20	Louvetot - France
1205	248.4	0.5	Haifa - Israel	1403	214	10	Montpellier - France
1205	249		Poznan - Poland	1403	214	20	Nice II - France
1214	246	20	Hamburg, Hannover, Langenb. BFN - Germ.	1403	214	20	Quimper II - France
1214	246	10	Herford, Berlin BFN - Germany	1412	212.4	3	Bad Mergentheim - Germany
1214	247	60	Brookmans Park - Gt. Britain	1412	212.5	5	R. Gandia EAJ23 - Spain
1214	247	20	Burghead - Gt. Britain	1412	212.5		R. Jaen EAJ61 - Spain
1214	247	10	Lisnagarvey - Gt. Britain	1412	212	5	Maribo - Yugoslavia
1214	247	58	Moorside Edge - Gt. Britain	1412	212	20	Pristina - Yugoslavia
1214	246	50	Westerglen - Gt. Britain	1412	212	15	Rijeka - Yugoslavia
1214	246	0.3/2	5 low power st. - Gt. Britain	1420	211.5	1	Fayid - Egypt
1214	246	2	Atlantico R. - Azores (Port.)	1421	211.2	5	Algiers III - Algeria
1214	246		Kursk - U.S.S.R.	1421	211.2	0.75	Tlemcen - Algeria
1223	245	0.1	Tulla BDN - Austria Am.Z.	1421	211.1	20	R. Saarbrücken - Saar
1223	245	20	Stara Zagora - Bulgaria	1428	210.0		R. Falange de Oviedo - Spain
1223	245	30	Barcelona R. Nac. - Spain	1430	210	15	Herstedvester - Denmark
1223	245.3	100	Falun - Sweden	1430	210	70	Skive - Denmark
1223	245.3	0.05	Hälsingborg - Sweden	1430	209.8		R. Reus EAJ11 - Spain
1232	243	0.05	Kosice - Czechoslovakia	1432	209.5	2	R. Mallorca EAJ13 - Spain
1241	242	20	Vaasa (Vasa) - Finland	1439	208	150	R. Luxembourg II - Luxembourg
1241	242	20	Lille II, Nancy II, Pau, Rennes II, Lyon II, Nice III, Quimper I - France	1447	207.0	2	R. Galicia EAJ4 - Spain
1241	242	20	Tiraspol - U.S.S.R.	1448	207.2	5	Ancona 2 - Italy
1250	240	10	Salzburg RWR - Austria Am.Z.	1448	207.2	5	Catania 2 - Italy
1250	240	0.05	3 low power st. RWR - Austria Am.Z.	1448	207.2	5	Firenze 2 - Italy
1250	240	5	Dublin, Cork - Eire	1448	207.2	10	Palermo 2 - Italy
1250	240	20	Nyiregyhaza - Hungary	1448	207.2	5	Sanremo 2 - Italy
1259	238.3	150	Courier (VOA) - Dodecanese Isl.	1448	207.2	20	Sassari 2 - Italy
1259	238.3	100	Szczecin - Poland	1448	207.2	1	Torino 2 - Italy
1259	238.5	5	R. Valencia EAJ3 - Spain	1448	207	1	Guarda - Portugal
1268	236.6	100	Novi Sad - Yugoslavia	1448	207.2	2	R. Alicante EAJ31 - Spain
1277	235	100	Strasbourg II - France	1448	207.2	1	R. Granada EAJ16 - Spain
1286	233	100	Radio Czechoslovakia - Czechoslovakia	1448	207.2	9	R. Castilla EAJ27 - Spain
1286	233	2	Lisbon R. Renascenca - Portugal	1448	207.2	2	R. Valladolid EAJ47 - Spain
1295	232		BBC European Sce (Norden Osterloog) G. Br.	1448	207.2	0.5	Gävle - Sweden
1300	230.7	1	Athens FBS - Greece	1448	207.2	1	Hudiksvall - Sweden
1300	230	0.6/0.8	3 low power st. - Spain	1448	207.2	0.5	Örnsköldsvik - Sweden
1300	230.8	0.5	Valladolid - Spain	1457	206.0	0.025	5 low power st. - Austria
1304	230	20	Constantin II - Alg ers	1457	206	20	Clevedon - Gt. Britain
1304	230	0.2	Oran II - Algiers	1457	206	10	Bartley - Gt. Britain
1304	230.0	0.25/1	5 low power st. AFN - Germany	1457	206	1	Brighton - Gt. Britain
1304	230	1	Tel Aviv - Israel	1457	206	0.25	Folkestone - Gt. Britain
1304	230		Lodz - Poland	1457	206	0.25	Hastings - Gt. Britain
1304	230.1	1	Triest AFS - Trieste	1457	205.9	20	Craiova - Rumania
1313	228	0.5/0.1	3 low power st. - Austria Br. Z.	1457	206.0	2	R. Vitoria EAJ62 - Spain
1313	228.5	100	Stavanger - Norway	1460	205.6	0.15	R. Polo Norte Coramulo - Portugal
1313	228.5	2	R. Salamanca 8AJ56 - Spain	1466	205	120	R. Monte Carlo - Monaco
1322	227	0.15	R. Ribatejo, Santarem - Portugal	1466	204.6	0.25	Geilo - Norway
1322	227		Leipzig II - Germany D.R.	1466	204.6	0.3	Mo i Rana - Norway
1331	225.4	20	Bari I - Italy	1466	204.6	1	Narvik - Norway
1331	225.4	25	Bologna I - Italy	1466	204.6	0.25	Odda - Norway
1331	225.4	0.25	Catania I - Italy	1466	204.6	1	Porsgrunn - Norway
1331	225.4	50	Genova I - Italy	1466	204.6	0.25	Svalbard - Norway
1331	225.4	5	Messina I - Italy	1475	203.4	2	Wien II - Austria
1331	225.4	0.25	Palermo I - Italy	1475	203.4	2	R. Huesca EAJ22 - Spain
1331	225.4	25	Pescara I - Italy	1484	202.2	1	Oran I - Algeria
1331	225.4	80	Roma I - Italy	1484	202.2	0.2	Bone - Algeria
1336.5	224.6	1	Haifa - Israel	1484	202.2	0.75	Fort National - Algeria
1340	224	150	Crawborough (Europ. Sce.) - Gt. Britain	1484	202.2	0.75	Azores - Czechoslovakia
1340	223.8	5	Magyarova, Miscole, Pecs - Hungary	1484	202	1	R. Clube de Madeira, Funchal - Madeira
1349	222	20	Clermont, Grenoble I, Nantes, Dijon, Limoges II, Toulouse II - France	1484	202.2	0.5	8 low power st. - Czechoslovakia
1349	223		Madona - U.S.S.R.	1484	202	2	Copenhagen - Denmark
				1484	202	0.25	Aalborg - Denmark
						0.25	Tønder - Denmark

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
1484	202	2	Helsinki II - Finland	1500	200.0	2	R. Alcira EAJ54 - Spain
1484	202	1	Pietarsaari (Jakobstad) - Finland	1500	200.0	2	R. Castellon EAJ14 - Spain
1484	202	1	Pori (Björneborg) - Finland	1500	200.0	0.2	Cuenca - Spain
1484	202	0.2	Tammisaari (Ekenäs) - Finland	1500	200.0		R. Las Palmas EAJ50 - Spain
1484	202	1	Tampere (Tammerfors) - Finland	1500	200.0	0.7	R. Tabriz - Tabriz
1484	202	0.2	Turku II - Finland	1502	199.7	0.25	Garmisch AFN - Germany
1484	202.2	0.15	R. Clube de Angra - Azores	1502	199.7	0.25	Giessen AFN - Germany
1484	202	0.05/1	Annemasse - France	1502	199.7	0.25	Hof AFN - Germany
1484	202	0.05/1	Caen - France	1502	199.7		Cracow - Poland
1484	202	0.05/1	Poitiers - France	1511	198	0.8	R. Soria (R. Seu) - Spain
1484	202	0.05/1	St. Brieux - France	1511	198.5	20	Brussels R. - Belgium
1484	202	1	Perpignan - France	1511	198.5	0.25	Patras - Greece
1484	202	0.25	Montpellier II - France	1511	198.5	0.15	Chania - Greece
1484	202	0.05	Grenoble II - France	1511	198.5	2	R. Murcia EAJ17 - Spain
1484	202	0.5	Barrow - Gt. Britain	1520	197.4	20/5	Ostrava - Czechoslovakia
1484	202	0.5	Ramsgate - Gt. Britain	1529	196	1	Em. Nacional - Madeira
1484	202.2	0.25	Volo - Greece	1529	196.2	0.075	Porjus - Sweden
1484	202	2	Augsburg - Germany	1529	196.2	0.06	Söderhamn - Sweden
1484	202	2	Coburg - Germany	1529	196.2	1.0	Umeå - Sweden
1484	202	2	Kempten - Germany	1529	196.2	100	Vatican R. - Vatican State
1484	202	2	Landshut - Germany	1538	195	20	Bad Dürreim - Germany
1484	202	2	Passau - Germany	1538	195	40	Ravensburg - Germany
1484	202	2	Regensburg - Germany	1538	195	5	Reutlingen - Germany
1484	202	2	Weiden - Germany	1546	194	0.25/2	13 synchr. low power st. - Gt. Britain
1484	202	2	Würzburg - Germany	1546	194	0.01	R. Pendas de Sauda - Portugal
1484	202.2	0.25	Keflavik - Iceland	1552	285	0.25	R. Tripoli - Libya
1484	202.2	0.25	La Spezia I - Italy	1554	193	60	Nice I - France
1484	202.2	1	Verona I - Italy	1562	192	10	Porto II - Portugal
1484	202.2	2	Bolzano 2 - Italy	1562	192.1	2.0	Borås - Sweden
1484	202.2	0.25	Cagliari 2 - Italy	1562	192.1	2.0	Halmstad - Sweden
1484	202.2	0.25	Trieste 2 - Italy	1562	192.1	2.0	Kalmar - Sweden
1484	202.2	1	Udine 2 - Italy	1562	192.1	0.25	Karlstad - Sweden
1484	202	7.5	R. Tripoli BFBS - Libya	1562	192.1	2.5	Malmö - Sweden
1484	202	7.5	Forces Br. St. - Libya	1562	192.1	0.25	Norrköping - Sweden
1484	202.2	0.025	Mosjøen - Norway	1562	192.1	0.5	Uddevalla - Sweden
1484	202.2	0.25	Rjukan - Norway	1562	192.1	0.5	Örebro - Sweden
1484	202.2		Gdansk - Poland	1562	192.1	0.15	Portuense R. Clube - Portugal
1484	202.2	1	R. Extremadura EAJ52 - Spain	1570	191.1	2	Lingen - Germany
1484	202.2	5	Vatican R. HV5 - Vatican State	1578	190.1	0.04	27 low power st. - Italy
1484	202	0.8	Dubrovnik - Yugoslavia	1578	190.1	10	Fredrikstad - Norway
1484	202	0.8	Osijek - Yugoslavia	1586	189.1	2	Kiel - Germany
1484	202	1.5	Belgrade 2 - Yugoslavia	1586	189.1	20	Hannover - Germany
1484	202	1.5	Zagreb II - Yugoslavia	1586	189.1	5	Osnabrück - Germany
1484	202	0.5	Bitola - Yugoslavia	1586	189.1	5	Bonn - Germany
1484	202	2	Nis - Yugoslavia	1586	189.1	40	Oldenburg - Germany
1492	201.1	2	R. Zamora EAJ72 - Spain	1586	189.1	0.1	Münster - Germany
1493	201	0.05	4 low power st. - Austria	1594	188	2	Esbjerg - Denmark
1493	201	0.05	St. Michael - Austria Am. Z.	1594	188	0.2	Karjaa (Karis) - Finland
1493	201	0.25	Toulouse III - France	1594	188	0.05	Toulon - France
1493	201	1	Marseille III - France	1594	188	2	Nîmes - France
1493	201	0.05	Nantes II - France	1594	188	2.5	Hoogezeand - Holland
1493	201	0.05	Nancy III - France	1594	188	2.5	Hengelo - Holland
1493	201	0.05	Strasbourg III - France	1594	188	2.5	Hulzburg - Holland
1493	201.0	2	R. Albacete EAJ44 - Spain	1594	188	0.15	5 low power st. - Portugal
1493	201.0	2	R. Pontevedra EAJ40 - Spain	1602	187	20	Kirchheim - Germany
1495	200.5	0.005	R. Altitude, Guarda - Portugal	1602	187	20	Landau - Germany
1500	200	0.5	Angmagssalik OZL - Greenland	1602	187	20/40	Nürnberg - Germany
1500	200	0.5	Godhavn - Greenland	1602	187	0.15	Em. Reunidos do Norte, Oporto - Portugal

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kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations		
2330	128.7	0.1	YDI6	Djember - Indonesia	* 3440	87.21	6.8	YVMC	R. Mara, Maracaibo - Venezuela
2340	128.2	0.5	ZYV30	R. Dif. Brasileira, Überl - Braz.	3450	86.96	1.2	YVLI	R. Maracay, Maracaibo - Venez.
2350	127.7	0.15	YDW	Pontianak - Indonesia	3460	86.71	1	YVLC	R. Valencia - Venezuela
2360	127.0	1		R. Cult., Pocos de Caldas - Brazil	3470	86.44	1	YVUI	Emis. Unidas, Barcelona - Venez.
2390	125.5	0.1	YDN	Kotardja - Indonesia	3480	86.21	7.5	CR7AB	R. Clube de Mozambique - Moz.
2390	125.5	0.1	YDA4	Tjirebon - Indonesia	3480	86.21	0.5	YVLE	R. Puerto Cabello - Venezuela
2420	124.0	0.25	YDA2	Bandung - Indonesia	3490	85.96	1	YVRA	R. Monagas, Maturin - Venezuela
2430	123.0	0.15	YDK2	Palembang - Indonesia	3495	85.84	5/100	VUD	AIR, Delhi - India
2440	122.7	0.3	YDG2	Surakarta - Indonesia	* 3520	85.16	1	YVLG	R. Girardot, Maracay - Venezuela
2442	122.85	0.5	4XB51	Tel Aviv FBS - Israel	3850	77.92	20	EQO	Teheran - Iran
2446	122.6	0.15	YDR2	Ternate - Indonesia	3892	76.80	1	HLKA	Seoul - S. Korea
2450	122.4	0.1	YDJ3	Jogjakarta - Indonesia	3914	76.65	2.5	ZQP	Lusaka - N. Rhodesia
2460	122.2	0.3	YDB	Djakarta - Indonesia	3915	76.63	50		Karachi - Pakistan
2467	122.0	0.25	YDI3	Surabaya - Indonesia	3915	76.63	1		Lahore - Pakistan
2480	121.0	0.5	ZYR60	R. Cultura de Araraquara - Brazil	3930	76.34	2	EPP	Teheran - Iran
2480	121.0	0.3	YDL2	Padang - Indonesia	3930	76.34	25		Roma - Italy
2490	121.35	0.15	YDH	Semarang - Indonesia	3935	76.24	5/100	VUD	AIR, Delhi - India
2500	120.0	0.5	MSF	Teddington - Gt. Britain	3935	76.24	10	JJC	Chiba - Japan
2500	120.0	1	JJY	Tokyo - Japan	3944	76.05	1		R. Universidad, P. Alegre - Brazil
2500	120.0	0.7	WWV	Washington - U.S.A.	3945	76.05	1	YDH2	Semarang - Indonesia
2510	120.5	10	HLKA	Seoul - S. Korea	3950	75.95	5/100	VUD	AIR, Delhi - India
2850	105.0	0.25	HC5BO	R. Cuenca - Ecuador	3950	75.95	3		Djeddah - Saudi Arabia
3130	95.84	0.3	YSIA	R. Intercontint., S. Salv. - El Salv.	3955	75.85	50		London - Gt. Britain
3205	93.66	1	YDA	Bandung - Indonesia	3955	75.85	5/25/50		Vatican City - Italy
3205	93.66	1	FIQA	Tananarive - Madagascar	3955	75.85	7.5		Dacca - Pakistan
3214	93.20	1	YDS	Menado - Indonesia	3955	75.85	50		Karachi - Pakistan
3241	92.56	0.2	2AP	Apia - Western Samoa	3960	75.75	0.3	YDL	Padang - Indonesia
3250	92.31	5/100	VUD	AIR, Delhi - India	3960	75.75	3		Djeddah - Saudi Arabia
3250	92.31	0.25	YDO	Bandjarmasin - Indonesia	3970	75.75	5/100	VUD	AIR, Delhi - India
3251	92.28	0.25		Dar-es-Salaam - Tanganyika	3975	75.47	50		BBC, London - Gt. Britain
3255	92.17	1	ZYR62	R. Clube de Marilia - Brazil	3980	75.38	0.5	ZJV	Suwa - Fiji Islands
3255	92.17	2	ZFY	R. Demerara, Georgetown - Brit.	3980	75.38	8/100		Munich (VOA) - Germany
				Guyana	3980	75.38	5	YDI2	Surabaya - Indonesia
3265	91.87	1	ZYK21	R. Tamandare, Recife - Brazil	3980	75.37	3		Djeddah - Saudi Arabia
3270	91.75	0.3	YDM1	Bukittingi - Indonesia	3985	75.28	25/100	HER22	Schwarzenburg - Switzerland
3275	91.60	1	ZYR31	Bauru R. Clube - Brazil	4000	75.00	2	JJY	Tokyo - Japan
3275	91.6	0.5	VP4RD	R. Trinidad - Trinidad	4050	74.05	25		Frunze - U.S.S.R.
3277	91.55	1	YDD	Djakarta - Indonesia	4200	71.50	0.25	HC5AO	V. d. Tomebamba, Cuenca - Ecuad.
3277	91.55			Shrinagar - Kashmir	4203	71.48	0.25	HC4AS	Voz de los Caras, Bahia - Ecuador
3286	91.33	0.1	YDG6	Madun - Indonesia	4290	69.63	5	COX7	Min. de Educac., Habana - Cuba
3290	91.19			Johannesburg - S. Africa	4403	68.07	1		R. Hirondelle, Hanoi - Vietnam
3295	91.05	5/100	VUD	AIR, Delhi - India	4470	67.12	0.3		R. Nacional Espejo, Quito - Ecuador
3300	90.91	5	ZIK2	Belize - Honduras (Br.)	4470	67.12			Nikolaevsk-on-Amur - U.S.S.R.
3305	90.77	5/10	VUC	AIR, Calcutta - India	* 4580	65.59	0.3	HC4FF	Voz de Esmeraldas - Ecuador
3305	90.76	1	YDG	Surakarta - Indonesia	4630	64.90	5	JJC	Chiba - Japan
3310	90.63	1	YVOG	R. Trujillo, Trujillo - Venezuela	* 4635	64.80	1	HC2AJ	Radiodif. del Ecuador - Ecuador
3318	90.45	0.25	FJQA	Tananarive - Madagascar	* 4675	64.20	0.25	HC2BK	R. El Mundo, Guayaquil - Ecuad.
3320	90.36	7.5		Salisbury - S. Rhodesia	* 4705	63.62	0.25	HC6BT	Voz del Tungurahua - Ecuador
3320	90.36	0.25	YVQG	V. de Anzoategui, Barcel. - Venez.	* 4718	63.58	0.25	HC2CI	R. El Telegrafo, Guayaquil - Ecu.
3325	90.23	1	ZYJ21	R. Borborema - Brazil	* 4745	63.27	10	HJTB	R. Militar, Bogota - Columbia
3330	90.09	0.85	YVQL	Voz del Tigre, El Tigre - Venez.	* 4750	63.19	5	YVMA	Ecos del Zulia, Maracaibo - Ven.
3335	90.95	1	ZYR59	A Voz do Sertao - Brazil	* 4750	63.16	0.2	HC1BF	R. Commercial, Quito - Ecuador
3335	89.96	1		Lahore - Pakistan	4755	63.10	1	ZYY3	R. Brazil, Campinas - Brazil
3340	89.82	1	YVMU	R. Carora - Venezuela	4760	63.03	5/100	VUD	AIR, Delhi - India
3345	89.68	1	ZYN22	R. Cultura da Bahia, Salv. - Brazil	* 4760	63.03	0.5	YVKW	Emis. Vargas, La Guaria - Venez.
3345	89.68	2	DZB2	»The Call of the Orient» - Philip.	* 4765	62.95	0.2	HC4FA	Voz de Manabi, Portoviejo - Ecu.
3350	89.55	1	YVKT	R. Libertador - Venezuela	4768	62.96	3	HJEF	R. de Occidente, Cali - Columbia
3355	89.45	0.3	YDI	Surabaya - Indonesia	4770	62.89	0.1	CR6RG	Dundo - Angola
3356	89.39			Johannesburg - S. Africa	* 4770	62.87	0.25	HC5GB	R. Cordillera, Riobamba - Ecuad.
3360	89.26	5	ZQI	Kingston - Jamaica	4770	62.89	1	YVMW	Ondas del Caribe, P. Fijo - Venez.
3360	89.26	1	YVOC	Ecos del Torbes, S. Christ. - Venez.	4774	62.83	7.5		Rangoon - Burma
3365	89.15	1	HI3H	R. Villa Duerte - Dom. Rep.	4777	62.79			Taegu - Korea
3365	89.15	5/100	VUD	AIR, Delhi - India	* 4780	62.76	0.25	HC1PM	R. El Palomar, Quito - Ecuador
3365	89.15	0.25	YDQ	Makassar - Indonesia	4780	62.76	1	YVLA	Voz de Carabobo, Valencia - Ven.
3370	89.02			Johannesburg - S. Africa	4780	62.76	0.2	HC4OF	Voz de Chone - Ecuador
3370	89.02	1	YVMI	Voz de la Fe, Maracaibo - Venez.	4783	62.70	2.5	HJAB	Emis. Unidas, Barranquilla - Col.
3375	88.89	1.5	HI4V	R. Baru, La Vega - Dom. Rep.	4785	62.70	0.5	ZYM8	R. Ribamar, Sao Luiz - Brazil
3375	88.89	7.5	YDB4	Djakarta - Indonesia	4785	62.70	1		Lahore - Pakistan
3375	88.89	1		Noumea - N. Caledonia	4790	62.63	2	EQD	Teheran - Iran
3380	88.76	1.5		Radio St. Denis - Reunion	4790	62.63	1	YVQC	Ecos del Orinoco, C. Boliv. - Ven.
3380	88.76	7.5	YVQN	Ond. Portenas, P. La Cruz - Ven.	4790	62.63	0.2	HC1GP	R. Amazonico, Quito - Ecuador
3390	88.50	0.25	OQ2AC	R. College, Elisabethv. - B. Congo	4795	62.50	0.25		R. Zanzibar - Zanzibar
3390	88.50	2	YVKX	Voz de la Patria, Caracas - Venez.	4797	62.57	0.5	HJFU	Voz del Comercio, Armenia - Col.
3395	88.34	0.25	YDP2	Medan - Indonesia	4800	62.50	1	YSDR	R. Tropical, S. Ana - El Salvador
3395	88.37	50		Karachi - Pakistan	4800	62.50	0.25		AIR, Mysore - India
3400	88.24	0.25		Port Stanley - Falkland Islands	4800	62.50	2.5		Lagos - Nigeria
3400	88.24	0.7	YVKP	R. Tropical, Caracas - Venezuela	4800	62.50			Johannesburg - S. Africa
3410	87.97	2.5	YVMK	R. Cabimas - Venezuela	4800	62.50	7.5	YVME	Ondas del Lago, Maracaibo - Ven.
3420	87.72	0.75	CR6RK	R. Clube do Sul, Lobito - Angola	4800	62.50	0.3	HC4HV	Voz de Jipijapa - Ecuador
3420	87.72	7.5	CR7BM	R. Clube de Mozambique - Moz.	4805	62.43	5	ZYS8	R. Difusora do Amazonas - Brazil
3420	87.72	1.5	YVOJ	R. Universidad Merida - Venez.	4805	62.43	0.5	HJDU	Universidad de Medellin - Col.
3425	87.70	5	CR8AB	R. Goa - Port. India	4806	62.43	1	CR6AA	R. Lobito - Angola
3435	87.34	5/100	VUD	AIR, Delhi - India	4807	62.40	7.5		Dacca - Pakistan
3440	87.21			Murree - Kashmir	4807	62.40	50		Karachi - Pakistan

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
4807	62.40	1	CR5SC	4960	60.48	5/100	VUD
4810	62.37	1	YVMC	4960	60.48		AIR, Delhi - India
4815	62.31	0.75	HJBB	4960	60.48	1	Blagoveshchensk - U.S.S.R.
4820	62.24	5		4960	60.48	0.25	R. Sucre, Cumana - Venezuela
4820	62.24	0.2	XEJG	*4965	60.42	1	Ond. Ecuatorianas, Riob. - Ecuad.
4820	62.24	1.5		4967	60.40	7.5	Emisora Fuentes, Cartag. - Col.
4820	62.24	1	YVNB	4970	60.36	7.5	Colombo - Ceylon
4825	62.18	0.5	ZYE7	4975	60.30	2.5	R. Rumbos, Caracas - Venezuela
4825	62.18	1	HJED	4980	60.25	0.25	R. Timbira, Sao Luiz - Brazil
4826	62.16	15	ZQP	4980	60.25	0.25	R. College, Elisabethv. - B. Congo
4829	62.11	7.5	CR7BV	4985	60.19	0.5	Ond. Azuayas, Cuenca - Ecuador
4830	62.11	5	YVOA	4985	60.19	1	A Voz do Oeste, Cuiaba - Brazil
* 4830	62.10	0.2	HC6FV	4985	60.19	0.25	Kotardja - Indonesia
4835	62.05	1		4990	60.12	2	Bacolod City - Philippines
* 4835	62.05	2.5	HJKE	4990	60.12	0.4	R. Occidental, Barquisimeto - Ven.
4840	61.98	0.25/10	VUB	4990	60.12	0.075	Ond. Castellanas, Loja - Ecuador
4840	61.98	0.25	HC1MI	4995	60.06	5	R. Caribe, Santiago - Dom. Rep.
4840	61.98	0.3	YDU	4995	60.06	1	R. Brazil Central - Brazil
4840	61.98	1.5	YVOI	5000	60.00	0.5	R. Dif. do Guapore, P. Velho - Br.
4845	61.92	1	CSA93	5000	60.00	2	Teddington - Gt. Britain
4845	61.92	0.5	ZYU8	5000	60.00	1	Puunene - Hawaii
4847	61.92	2.5	HJGF	5000	60.00	1	Tokyo - Japan
4850	61.86	3	YVMS	5000	60.00	8	Kuwait - Kuwait
4850	61.86	0.25	HC3CV	5010	59.88	7.5	Washington - U.S.A.
4855	61.79	1	ZYR61	5010	59.88	5	FBS, Singapore - Malaya
* 4855	61.79	0.5	HJFV	5010	59.88	1	Singapore - Malaya
4855	61.79	1	YDK	*5020	59.76	1	R. Aeropostal, Caracas - Venez.
4855	61.79	5	VQ7LO	5023	59.72		Transm. Caldas, Manizates - Col.
4860	61.73	5/100	VUD	5025	59.70	1	Vladivostok - U.S.S.R.
4860	61.73	5	JKL	5025	59.70	0.2	Colombo - Ceylon
4860	61.73			*5030	59.67	0.2	R. Alborada Cuenca - Ecuador
4860	61.73	1	YVPA	5030	59.64	1	HC5BL
4865	61.66	5		5030	59.67	7.5	HI8Z
* 4865	61.66	1	HJFA	5033	59.59	1	YDM2
4865	61.66	1	YDR	5040	59.52	5	YVKM
4869	61.61	0.25	CR6RA	5042	59.48	1	CR6AA
4870	61.60	7.5		5045	59.46	5	R. Lobito - Angola
4870	61.60	2.5	HJBG	5045	59.46	1	Tbilisi - U.S.S.R.
4870	61.60	5/100	VUD	*5050	59.41	5	CR6RF
4875	61.54	1	HJFH	5050	59.41	0.25	ZYP23
4875	61.54	0.25	HS1JS	5050	59.41	5	COCW
4880	61.48	5/100	VUD	5053	59.38	0.5	HJDW
4880	61.48	7.5	YVKF	5060	59.30	7.5	YVKD
4885	61.42	0.3	HC6RT	5070	59.20	1	HI2L
4890	61.35	0.03	HI3C	5080	59.10	0.35	YDJ
4890	61.35	10	YVKB	5080	59.10	5	HJKH
4895	61.29	5	PRF6	5150	58.26		
4895	61.29	2	HJCH	5225	57.42	10	
4895	61.29			5260	57.03		
4897	61.26	1		5275	56.87	8/100	
4897.5	61.26	10	VLX4	5450	55.04		
4900	61.22	7.5		5470	55.03	0.25	
4900	61.23	0.3		5485	54.00	10	
4900	61.22	1	YVQE	5740	52.53		
4905	61.16	5	ZYZ20	5750	52.18	0.5	CE8AA
4905	61.23	1	HJAG	5752	52.11	0.35	PZH5
* 4905	61.16	0.25	HC1IM	5770	51.99	0.1	ZCQ3
4910	61.10	0.3	YDB2	5780	51.90	1	CMA5
4910	61.10	5	JKI	5838	51.38	1	CQM4
4910	61.10	0.2	HC1AR	5840	51.36	0.5	4VHW
4910	61.10	50		5860	51.20	10	
4915	61.04	0.5	HJEQ	5875	51.06	1	TIGPH
4915	61.04	0.3	HC5LR	*5885	50.94	1	HRN
4917	60.01	0.2	HI9B	*5890	50.93	0.5	OAX4V
4920	60.98	10	VLM4	5892	50.92		
4920	60.98	0.25/10	VUM	5895	50.90	0.4	CR4AA
4920	60.99	7.5	CR7BU	5900	50.85	10	LRA
4920	60.99	10	YVKB	5900	50.84	0.25	ZNB
4930	60.90	1	YDP	5900	50.84	0.15	4VSL
4930	60.90	1	HC1RC	5900	50.84	10	
4935	60.80	1	ZY121	5910	50.76	10	
4935	60.80	1	HJFR	5912	50.76	50	
4940	60.73	5/100	VUD	5920	50.70	50	
4940	60.73	5	JKM	5930	50.59	50	
4940	60.73	4	YVQM	5935	50.55	1	HRA
4945	60.66	1	HJCW	5940	50.51	50	
4945	60.61	0.25	YDA3	*5943	50.48	1	YNDG
4945	60.67			5945	50.45	0.7	4V2S
* 4948	60.63	1	HJAP	5945	50.45	50	
4950	60.60	1		5952	50.45	5	TGNA
4950	60.60	5	ZQI	5955	50.37	100	
4950	60.60	1	YVMM	5955	50.37	7.5/100	
4950	60.60	5	ZIK	5955	50.37	50	
4955	60.55	10	HJCQ				
4958	60.53	10					

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
5960	50.34	35	Salonika (VOA) - Greece	6025	49.79	0.25	HI1J Ondas Nacionales, S. Pedro de
5960	50.34	5/100	AIR, Delhi - India				Macoris - Dom. Rep.
5960	50.34	50	Moscow - U.S.S.R.	6025	49.79	40	Lopik 4 - Holland
5960	50.34	7.5/50	R. Free Europe - Germany	6025	49.75	5	Kuala Lumpur - Malaya
5964	50.28	1	Voz de Bogota, Bogota - Colomb.	6025	49.79	7.5/100	Warsaw - Poland
5964	50.30	0.3	Godthaab - Greenland	6025	49.79	5	CR8AB R. Goa - Port. Indis
5965	50.28	100	Allouis - France	6030	49.75	0.1	CFVP The Voice of the Prairies - Canada
5965	50.29	50	Moscow - U.S.S.R.	6030	49.75	5/25/50	Vatican City - Italy
5968	50.27	5/25/5	Vatican City - Italy	6030	49.75	20	Stuttgart - Germany SDR
5970	50.26	1	R. Illimani, La Paz - Bolivia	6030	49.75	0.5	XEKW Radio Morelia - Morelia
5970	50.26	50	R. Canada - Canada	6030	49.75	0.25	HP5B R. Cadena Miramar - Panama
5970	50.26	0.3	St. John's - Canada	6030	49.75	2	DZH6 "The Call of the Orient", Manila -
5970	50.25	7.5	La Voz Dominicana - Dom. Rep.				Philippines
5970	50.26	7.5/50	R. Free Europe - Germany	6030	49.75	50	Moscow - U.S.S.R.
5970	50.25	0.5	Voz de la Telefunken - Guatemala	6034	49.71	7.5	Rangoon - Burma
5970	50.25	5/100	AIR, Delhi - India	6035	49.71	30	3AM3 Monte Carlo - Manoco
*5970	50.25	2	R. El Sol, Lima - Peru	6035	49.71	1	Noumea - New Caledonia
*5975	50.21	0.25	La Voz del Pueblo - El Salvador	6035	49.71	50	GWS BBC, London - Gr. Britain
5975	50.21	50	BBC, London - Gt. Britain	6035	49.71	50	Karachi - Pakistan
5975	50.21	7.5/100	Warsaw - Poland	6035	49.71		R. Clube do Brazil, Rio de J. - Br.
5975	50.21	3	Djeddah - Saudi Arabia	6035	49.71	1	HRTL Radio Tela - Honduras (Rep.)
5976	50.20	10	R. Nacional, Lisbon - Portuga	*6035	49.71	0.15	OAX6B R. Landa, Arequipa - Peru
5980	50.16	25	R. Andorra - Andorra	6035	49.71	1	CXA30 R. Nacional, Montev. - Uruguay
5980	50.16	20	NWDR, Deutsche Welle - Germ.	6037	49.69		TGTO R. Popular, Zacatecos - Guatem.
5980	50.16	0.4	R. Quetzal, Guat. C. - Guatemala	6040	49.67	0.2	2AP Apia - Western Samoa
5980	50.16	5	Huizen 2 - Holland	6040	49.67	50	GSYJ BBC, London - Gt. Britain
5980	50.17	5/100	AIR, Delhi - India	6040	49.67	35	VUD Salonika (VOA) - Greece
5980	50.17	50	Karachi - Pakistan	6040	49.67	50	Moscow - U.S.S.R.
5980	50.16	10	Yakutsk - U.S.S.R.	6040	49.67	5/100	AIR, Delhi - India
5981	50.16	2	R. Demarara - Br. Guiana	6040	49.67	50/200	KCBR Delano - U.S.A.
*5984	50.13	0.25	R. Huancayo - Peru	6040	49.67	75/200	WLWO Bethany - U.S.A.
5985	50.13	5	R. Splendid, B. Aires - Argentina	6042	49.65	0.2	OAX6A R. Arequipa, Arequipa - Peru
5985	50.13		East - China	6044	49.64	0.1	HI2A Voz de la Reeleccion, Santiago - D
5985	50.13	7.5/50	R. Free Europe - Germany	6045	49.63	0.1	XETW La Voz de Tampico - Mexico
5990	50.08	1	R. Casino, Limon - Costa Rica	6045	49.63	100	YDF Djakarta - Indonesia
5990	50.08	5	R. Nuevo Mundo - Guatemala	6045	49.63	5	CE604 R. Libertad Antofagasta - Chile
5990	50.08	5/100	AIR, Delhi - India	6045	49.63	1	HOU31 Voz del Bar, David - Panama
5990	50.08	0.8	R. Luz, Ambato - Ecuador	6045	49.63	100	Allouis - France
5990	50.08	50	Karachi - Pakistan	6050	49.59	0.25	HI1N Emisoras Unidos, C. Truj. - Dom
5995	50.04	0.5	Suwa - Fiji Islands	6050	49.59	0.75	YSR La Voz de El Salvador - El Salv.
*5995	50.04	1	R. Progr. Continental - Panama	6050	49.59	0.25	HC2RQ Voz del Tropico - Ecuador
5995	50.04	7.5/100	Warsaw - Poland	6050	49.59	50	GSA BBC, London - Gt. Britain
5995	50.04	50	Moscow - U.S.S.R.	6050	49.59	1	HCJB Voz de los Andes, Quito - Ecuador
6000	50.00	0.5	Innsbruck - Austria	6050	49.59	50	Moscow - U.S.S.R.
6000	50.00	100/20	Brussels - Belgium	6055	49.55	7.5	PRB21 R. Panamericana, S. Paulo - Brazil
6000	50.00	5	R. Inconfidencia, B. Horiz - Brazil	*6055	49.55	5	HJEX R. Pacifico, Cali - Colombia
6000	50.00	10	Emisora Nuevo Mundo, Bog. - Col.	6055	49.55	5	CXA14 Servicio de Inform. - Uruguay
6000	50.00	1	Voice of the Philippines - Philipp.	6055	49.55	0.25	DYH4 Silliman University, Dúmaguete -
6000	50.00	20	R. Ankara - Turkey				Philippines
6000	50.00	5	R. de Montevideo - Uruguay	6055	49.55	25/100	HER2 Schwarzenburg - Switzerland
6004	49.95	7.5	Colombo - Ceylon	6055	49.55	10	Komsomolsk - U.S.S.R.
6005	49.96	20	Berlin RIAS - Germany	6060	49.50	0.5	Damascus - Syria
6005	49.96	5/25/50	Vatican City - Italy	6060	49.50	50	GSX BBC, London - Gt. Britain
6005	49.96	5	Tokyo - Japan	6060	49.50	5	VQ7LO Nairobi - Kenya
6005	49.96	1	Voz de la Victor, Colon - Panama	6060	49.50	50	CKRZ R. Canada - Canada
*6006	49.95	1.5	R. Crystal, S. José - Costa Rica	6060	49.50	50	OZF3 Herstedvester - Denmark
6006	49.95	2.5	Rabat - Morocco	6060	49.50	0.5	HORT R. Balboa, Panama C. - Panama
6007	49.94		Joahannesburg - S. Africa	6060	49.50	50	Moscow - U.S.S.R.
6010	49.92	1	Sydney - Canada	6060	49.50	75/50	Manila (VOA) - Philippines
6010	49.92	5	Emisoras Norte, Antofag. - Chile	6060	49.50	35	S. Fernando (VOA) - Philippines
6010	49.92	1	Voz Armenia, Armenia - Colomb.	6060	49.50	100/200	KRCA Dixon - U.S.A.
6010	49.92	5	Periodico del Aire, Habana - Cuba	6060	49.50	50	WDSI Brentwood - U.S.A.
6010	49.92	30	Prague - Czechoslovakia	6060	49.50	0.1	CP44 R. Popular, Cochabamba - Bolivia
6010	49.92	5	R. Nacional, S. Salv. - El Salvad.	6060	49.50	0.25	HC1AC Voz de la Democracia - Ecuador
6010	49.92	50	BBC, London - Gt. Britain	6062.5	49.49	15	LRA R. del Estado, B. Aires - Argentina
6010	49.92	1	Radiod. 4VM, Port au Pr. - Haiti	6065	49.46	5	XEXG La Voz de Mexico - Mexico
6010	49.92	0.25/10	AIR, Calcutta - India	6065	49.46	5	LRS1 R. Splendid, B. Aires - Argentina
6010	49.92	5/100	AIR, Delhi - India	6065	49.46	0.2	YNEQ Voz de la Victoria, Mana. - Nic.
6010	49.92	50/60/100	RAI, Rome - Italy	6065	49.46	100	Hörby - Sweden
6010	49.92	2.5	Radio Mil - Mexico	6065	49.46	0.25	AIR, Mysore - India
*6011	49.92	1	R. Victoria, Lima - Peru	6065	49.46	7.5	Ministerio de Agricultura - Brazil
6015	49.88	10	R. Clube de Pernambuco - Brazil	*6065	49.46	0.3	HC2FQ R. Continental, Guayaquil - Ecu.
6015	49.88	35	VOA Courier - Dodecanese Isl.	6069	49.42	50	JOB Tokyo - Japan
6015	49.88	1	R. Panamericana, Man. - Nicarag	6070	49.42	1	CFRX Toronto - Canada
*6018	49.84	5	Voz de Colombia, Bogota - Colo.	6070	49.42	50	GRR BBC, London - Gt. Britain
6018	49.84	7.5	Salisbury - S. Rhodesia	6070	49.42	100	Sofia IV - Bulgaria
6020	49.83	7.5/50	R. Free Europe - Germany	6070	49.42	0.25	HRQ5 Voz de Suyapa, Tegucig. - Hond
6020	49.83	1	R. Monserrat, Teg. - Honduras	6070	49.42	0.25	CP18 R. El Condor, Oruro - Bolivia
6020	49.83	0.25	El Eco de Sotavento - Mexico	6070	49.42	10	Petropavlovsk - U.S.S.R.
6020	49.83	50	Bound Brook - U.S.A.	6070	49.42	50	Moscow - U.S.S.R.
6020	49.83	50/200	Dixon - U.S.A.	6072	49.40	10	Bukhara - U.S.S.R.
6020	49.83	50	Kiev - U.S.S.R.	6074	49.38		TIMC R. Guanaste, Liberia - Costa Rica
6022	49.79	1	Monrovia - Liberia	6075	49.38	7.5	Colombo - Ceylon
6024	49.80	4.5	Radio AEF - Fr. Eq. Africa	6075	49.38		TITH R. Excelsior, S. José - Costa Rica
6025	49.79	50	R. Emissora de Piratininga, Sao Paulo - Brazil	6075	49.38	1	YSE R. Mil Veinticinco - El Salvador
				6075	49.38	2.5	CXA3 R. Ariel, Montevideo - Uruguay

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
6075	49.38	50	Karachi - Pakistan	6130	48.94	10	LKJ
*6077	49.36	0.6	YNOW	6130	48.94	7.5/50	Tromsø - Norway
6080	49.34	35/50/100	Voz de la America Central, Managua - Nicaragua	6130	48.94	50	R. Free Europe - Germany
6080	49.34	5	Tangier (VOA) - Tangier	6135	48.90	0.5	Moscow - U.S.S.R.
6080	49.34	0.3	Tokyo - Japan	6135	48.90	7.5	Baghdad - Iraq
6080	49.34	8/100	Voice of Manila - Philippines	6135	48.90	1	Damascus - Syria
6080	49.34	0.01	Munich (VOA) - Germany	6135	48.90	5	R. Tahiti, Papeete - Tahiti
6080	49.34	5/100	Vancouver - Canada	6135	48.90	1	Singapore - Malaya
6080	49.34	7.5	AIR, Delhi - India	6135	48.90	0.5	Voz del Valle, Cali - Colombia
6082	49.32	15	Wellington - New Zealand	6135	48.90	7.5	R. Electra, S. Cruz - Bolivia
6085	49.30	100	R. Nacional, Lima - Peru	6138	48.88		R. Gaucha, Porto Alegre - Brazil
6085	49.30	0.5	Cairo - Egypt	6140	48.86	10	Lahore - Pakistan
6085	49.30	0.25/10	R. Trinidad - Trinidad	6140	48.86	0.5	R. Congo Belge - Belgian Congo
6085	49.30	64	AIR, Madras - India	6140	48.86	0.5	R. Nacional, Panama C. - Panama
6085	49.30	100	R. Jornal do Commercio - Brazil	6140	48.86	8/100	Voice of Cebu, Cebu City - Phil.
6090	49.26	2	Brussels - Belgium	6140	48.86	35/50/100	Munich (VOA) - Germany
6090	49.26	0.3	Sydney - Australia	6145	48.82	10	Tangier (VOA) - Tangier
6090	49.26	50	La Independiente - Panama	6145	48.82	100	R. Independencia - Argentina
6090	49.26	50	BBC, London - Gt. Britain	6145	48.82	35	Allouis - France
6090	49.26	7.5	R. Canada - Canada	6145	48.82	5/100	Okinawa (VOA) - Ryukyu Islands
6090	49.26	50	Montreal (Fr. Netw.) - Canada	6145	48.82	5	AIR, Delhi - India
6090	49.26	7.5	R. Luxembourg - Luxembourg	6147	48.80	50	Voz de Antioquia - Colombia
6090	49.26	1	R. Tabriz - Iran	6149	48.79	0.2	R. Nacional, Rio de J. - Brazil
6091	49.26	7.5	R. Cambodge, Phnom-Penh - Cambodia, Indo-China	6150	48.78	2	Voz de Fundacion - Dom. Rep.
6092	49.26	0.25	R. Commerce, Port au Pr. - Haiti	6150	48.78	5	Winnipeg - Canada
6095	49.22	100	Radio Lima - Peru	6150	48.78	50	Melbourne - Australia
6095	49.22	3.5	Hörby - Sweden	6150	48.78	20	BBQ, London - Gt. Britain
6095	49.22	30	Johannesburg - South Africa	6150	48.78	50	Khabarovsk - U.S.S.R.
6095	49.22	7.5/50	Taipei - Taiwan	6150	48.78	5/100	Moscow - U.S.S.R.
6095	49.22	25	Prague - Czechoslovakia	6150	48.78	0.25	AIR, Delhi - India
6095	49.22	0.25	R. Free Europe - Germany	6150	48.78	5	R. El Mundo, S. José - Costa R.
6095	49.22	2	R. Difusora de Sao Paulo - Brazil	6150	48.78	0.5	R. Cooperativa Vitalicia - Chile
6100	49.18	0.3	Voz del Perpetuo Socorro - Ecu.	6150	48.78	0.25/10	R. Continental - Guatemala
6100	49.18	0.5	R. Nacional, Managua - Nicarag.	6150	48.78	0.3	AIR, Bombay - India
6100	49.18	0.25	Lagos - Nigeria	*6150	48.78	0.25	Voz de Cuscatlan - El Salvador
6100	49.18	0.25	Djeddah - Saudi Arabia	6150	48.78	10/100	R. Fides, La Paz - Bolivia
6100	49.18	0.5	Suva - Fiji Islands	6153	48.75	0.5	R. Delcar, Chiclayo - Peru
6100	49.18	0.25	Belize - Honduras (British)	6154	48.74		R. Yugoslavia - Yugoslavia
6100	49.18	50	Port Stanley - Falkland Islands	6154	48.74	2	R. Excelsior, Lima - Peru
6100	49.18	50	Moscow - U.S.S.R.	6154	48.74	0.2	South West - China
6100	49.18	50	Peking - China	6155	48.74	2	R. Renascensia, Lisbon - Portugal
6100	49.18	50	Bound Brook - U.S.A.	6155	48.74	2	Wien I, - Austria
*6100	49.18	2.5	Voz Amiga, Pereira - Colombia	6155	48.74	75/200	Teheran - Iran
6100	49.18	10/100	R. Yugoslavia - Yugoslavia	6155	48.74	100	Bethany - U.S.A.
6105	49.14	5	Ceara R. Clube, Fortaleza - Brazil	6160	48.70	100	R. Carve, Montevideo - Uruguay
6105	49.14	0.25	R. Comayagüela - Honduras	6160	48.70	10	Honolulu (VOA) - Hawaii
6105	49.14	6	R. Manizales, - Colombia	6160	48.70	25	Em. Nueva Granada - Colombia
6105	49.14	1	Kure - Japan	6160	48.70	0.15	Algiers I - Algeria
6105	49.14	7.5/50	R. Free Europe - Germany	6160	48.70	10	Vancouver - Canada
6110	49.10	5	Srinagar - Kashmir	6160	48.70	50	München B. R. - Germany
6110	49.10	50	Rep. Broadc. System, Man. - Phil.	6160	48.70	50	Moscow - U.S.S.R.
6110	49.10	7.5/100	BBC, London - Gt. Britain	6165	48.66	0.4	La Magloire Br. Circuit - Port Pr.
6110	49.10	50	BFEBS, Singapore - Malaya	6165	48.66	25/100	Schwarzenburg - Switzerland
6110	49.10	50	Moscow - U.S.S.R.	6165	48.66	2	Para Ti, S. José - Costa Rica
6110	49.10	5/100	AIR, Delhi - India	6165	48.66	50	Damascus - Syria
6110	49.10	0.2	R. Restauracion, Lima - Peru	6165	48.66	7.5	BBC, London - Gt. Britain
6112	49.08	1	Voz de los Muchachos - Dom. R.	6170	48.62	0.25	R. Cultura, Sao Paulo - Brazil
6112	49.08	50	Karachi - Pakistan	6170	48.62	1	Sharq al Adna - Cyprus
6112	49.08	7.5	Dacca - Pakistan	6170	48.62	50	The Peoples Station - Philippines
6115	49.06	5	Berlin I - Germany (Dem. R.)	6170	48.62	30	BBC, London - Gt. Britain
6115	49.06	10	Komsomolsk - U.S.S.R.	6170	48.62	50	Prague - Czechoslovakia
6116	49.06	25	R. France Asie, Saigon - Vietnam	6170	48.62	50	Moscow - U.S.S.R.
6120	49.02	50	Moscow - U.S.S.R.	6170	48.62	35/50/100	Tangier (VOA) - Tangier
6120	49.02	7.5	Sharq al Adna - Cyprus	6170	48.62	50	Brentwood - U.S.A.
6120	49.02	10	R. El Mundo, B. Aires - Argentina	6170	48.62	1	R. Fenix, Montevideo - Uruguay
6120	49.02	15	Pori - Finland	6170	48.62	0.35	Voz del Progreso - El Salvador
6120	49.02	1	R. El Condor, La Paz - Bolivia	6172	48.60	5	R. Nacional, Caracas - Venezuela
6120	49.02	50	Brentwood - U.S.A.	6175	48.58	1	Tananarive - Madagascar
6120	49.02	7.5	Dacca - Pakistan	6175	48.58	5	Singapore - Malaya
6122	49.00	0.5	Voz del Pueblo Panama C. - Pan.	6175	48.58	0.1	R. Gobernacion - Mexico
6125	48.98	7.5/50	Manila (VOA) - Philippines	6175	48.58	0.3	R. Panamericana - Panama
6125	48.98	10	S.O.D.R.E. Montevideo - Urug.	6175	48.58	5	R. Liberation, Munich - Germany
6125	48.98	1	Voz de Suyapa, S. Pedro Sula - Honduras	6175	48.58	10	Tokyo - Japan
6125	48.98	50	R. Excelsior, Sao Paulo - Brazil	6175	48.58	3	Djeddah - Saudi Arabia
*6125	48.98	0.25	R. Nacional Condor - Ecuador	6177	48.56	7.5	Athens (NBI) - Greece
6125	48.98	50	BBC, London - Gt. Britain	6180	48.54	1	Voz de Guatemala - Guatemala
6128	48.96	0.4	Voz de Quezaltenango - Guatem.	6180	48.54	0.25	Voz Suprema de Occidente - El S.
6128	48.96	0.1	R. Cuzco, Cuzco - Peru	6180	48.54	50	BBC, London - Gt. Britain
6130	48.94	0.25	Emisoras HIG, C. Truj. - Dom. R.	6180	48.54	3	Nueva Alma Tica, S. José - Costa
6130	48.94	1	Voz del Aire, Habana - Cuba	6180	48.54	5	R. del Estado, Mendoza - Argent.
6130	48.94	7.5	Wellington - New Zealand	6180	48.54	10	Ashkabad - U.S.S.R.
6130	48.94	2	Port Moresby - New Guinea	6185	48.50		R. Bandeirantes, Sao Paulo - Braz.
6130	48.94	5	Tokyo - Japan	6185	48.50	0.05	Radio Puebla - Mexico
6130	48.94	0.5	Halifax - Canada	6185	48.50	10	Tromsø - Norge
6130	48.94	0.5	R. Sultana de Lerma - Mexico	*6185	48.50	0.4	Voz de Nicaragua, Man. - Nicar.
				6185	48.50	8/100	Munich (VOA) - Germany
				6185	48.50	100/200	Delano - U.S.A.
				6185	48.50	0.5	R. Amauta, La Paz - Bolivia

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
*6187	48.49	1	HRSU	6725	44.61	1	4XB44
6188	48.48	0.75	YSUA	6730	44.66	15	
6190	48.47	5	JKM21	6744	44.48	3	TIHH
6190	48.47	1.2		6752	44.43	0.5	
6190	48.47	5/25/50		6790	44.18	7.5	ZJM6
6190	48.47	5/100	VUD	*6795	44.15	0.3	HC2LT
6190	48.47	50	WRCA	6825	43.96	15	
*6190	48.47	10	HJCT	6830	43.82	2.5	4XB21
6190	48.47	0.3	CP37	*6830	43.82	0.25	HC1FM
6190	48.47	0.1	HI9T	6845	43.77		
6190	48.47	5	CE619	6870	43.63	0.25	HC4EB
6195	48.43	50	GRN	6870	43.63	1	CR6RR
6195	48.43	7.5/100		*6960	43.10	0.25	
6195	48.43	10		6967	43.06	10	
6195	48.43	50		6980	42.98	0.2	FO8AA
6195	48.43	100		6990	42.92	1.5	
6195	48.43	1	HJEZ	7006	42.83	0.5	FET1
6195	48.43	20	PRD21	7010	42.80	50	
6198	48.41	0.3	OAX1B	7030	42.67	0.08	
6199	48.39	0.35		7030	42.67	0.5	
6200	48.39	1.3	ZOY	7032	42.63	3	EAJ
6200	48.39	7.5		7062	42.48	0.5	
6200	48.39	100		7070	42.43	1	CR6RR
6200	48.39	0.8	OAX2A	7079	42.38	0.3	
6203	48.35			7092	42.30	16	
6210	48.31	5		7096	42.27	50	
6210	48.31	50/60/100		7100	42.25	3	
6220	48.23	10		7100	42.25	50	
6220	48.23	5	CE622	7100	42.25	35/50/100	
6235	48.12	50		7100	42.25	1	YDJ2
6235	48.12	0.3	HRD2	7100	42.25	0.25	
6240	48.08	5		7105	42.22	100	
6240	48.07	1	HSK5	7105	42.22	0.15	CR6RD
6240	48.07	0.1		7105	42.22	7.5/50	
6248	48.02	100		7106	42.22	0.5	CR6AA
6250	48.00			7110	42.19	50	
6255	47.96	0.15	TGRA	7110	42.19	50	MCS
6260	47.92	5		7115	42.16	8/100	
6270	47.84	0.5		7115	42.16	5/100	VUD
6275	47.81	3	ZPA1	7115	42.16	50	
6285	47.73	1	TGTQ	7120	42.13	5/100	VUD
6295	47.66	1	TGLA	7120	42.13	100	
6295	47.66	0.8/3	OTM1	7120	42.13	50	GRM
6300	47.62	0.15	4VWA	7120	42.13	7.5/100	
*6307	47.57	1	OAX4H	7125	42.11	0.3	
6320	47.47	1		7125	42.11	5/100	VUD
6325	47.44			7125	42.10	50	
6330	47.30	5		7125	42.10	7.5/100	
*6330	49.00	0.3	OBX4P	7126	42.10	1	VQ6MI
6335	47.35	0.25	TGTA	7130	42.08	10	
6336	47.37	0.3	OAX6E	7130	42.08	20	BED7
6340	47.34	0.4	4VGS	7135	42.05	3	CR4AA
6345	47.28			7135	42.05	50	GRS
6360	47.17	10		7140	42.02	1	HSK6
*6360	47.16	0.6	HRP1	7140	42.02	1	
6374	47.07	10		7140	42.02	7.5/50	
6380	47.03	0.15	4VCP	7140	42.02	50	
6400	46.86	1		7142	42.01	1	CR6RN
6406	46.83	0.15	4VCN	7145	41.99	7.5	
6410	46.80	0.6	HRLP	7145	41.99	7.5/50	
6437	46.60	6.5		7145	41.99	7.5/100	
6450	46.51	1	COCY	7150	41.96	50	GRT
*6465	46.40	0.4	YNWA	7150	41.96	0.25	QQ2AB
6480	46.30	50		7150	41.96	5	
6480	46.30	0.05		7150	41.96	7.5	
6493	46.24			7150	41.96	50	
*6500	45.88		TITH	7155	41.93	5/100	VUD
6525	45.40			7155	41.93	7.5/50	
6526	46.00	0.35	OBX4B	7160	41.89	100	
*6545	45.77	0.3	OAX2S	7160	41.89	35	
*6550	45.75	0.4	YNBH	7160	41.89	35/50/100	
6564	45.68	0.25	OAX4C	7161	41.89	0.15	CR6RB
6570	45.66	0.2	TGCB	7165	41.87	50	
6570	45.66	0.5		7165	41.87	50	
6590	45.42			7165	41.87	7.5/50	
6590	45.42	1	TGBA	7170	41.84	5/100	VUD
6600	45.45	0.5	TAZ	7170	41.84	0.2	
6620	45.32	1	TG2	7175	41.81	7.5/50	
6635	45.21	0.2	HC2RL	7175	41.81	7.5/100	
6640	45.20			7180	41.78	50	
6655	45.08	0.25	TGZA	7180	41.78	0.06	CR4AB
6675	44.95	25	HBQ	7180	41.78	50	JOB2
6675	44.95	2	HROW	7185	41.75	50	GRK
6678	44.92	0.15		7190	41.72	50	
6690	44.80	0.2		7190	41.72	5/100	VUD
6700	44.78	25		7190	41.72	7.5/100	
			R. Progreso, S. Pedro Sula - Hon.				Tel Aviv FBS - Israel
			R. Mil Cincuenta, S. Salv. - El Sal.				Tashkent - U.S.S.R.
			Tokyo - Japan				R. Athenea, S. José - Costa Rica
			Frankfurt (HR) - Germany				Larissa - Greece
			Vatican City - Italy				Sharq al Adna - Cyprus
			AIR, Delhi - India				R. Costa Azul, Salinas - Ecuador
			Bound-Brook - U.S.A.				Tashkent - U.S.S.R.
			R. Nacional, Bogota - Colombia				Tel Aviv - Israel
			R. Oruro, Oruro - Bolivia				R. Equinoccial, Ibarra - Ecuador
			Broadc. Tropical - Dom. Rep.				R. Isfahan, Isfahan - Iran
			R. Cooperacion, Santiago - Chile				R. Manta - Ecuador
			BBC, London - Gt. Britain				Dundo - Angola
			Warsaw - Poland				Valencia (R. Alerta) - Spain
			Baku - U.S.S.R.				Magadan - U.S.S.R.
			Moscow - U.S.S.R.				R. Tahiti, Papeete - Tahiti
			Honolulu (VOA) - Hawaii				Malaga (RNE) - Spain
			Voz de Cali, Cali - Colombia				R. Falange, Valladolid - Spain
			Emisora Continental - Brazil				Karachi - Pakistan
			R. Piura, Piura - Peru				Makronissos - Greece
			Cayenne - Guiana (French)				Techn. University, Istanbul - Turk
			Accra - Gold Coast				Radio Mediterraneo - Spain
			Damascus - Syria				Baghdad - Iraq
			Allouis - France				Dundo - Angola
			R. Trujillo, Trujillo - Peru				Enugu - Nigeria
			Batum - U.S.S.R.				Baghdad - Iraq
			Bucarest - Rumania				Karachi - Pakistan
			RAI, Rome - Italy				Djeddah - Saudi Arabia
			Alma Ata - U.S.S.R.				Moscow - U.S.S.R.
			R. Soe N. de Minería, Sant. - Chile				Tangier (VOA) - Tangier
			Karachi - Pakistan				Jogjakarta - Indonesia
			Voz de Atlantida, La Ceiba - Hon.				Kathmandu - Nepal
			Milano - Italy				Allouis - France
			R. Thailand - Thailand				Nova Lisboa - Angola
			Mytilini - Greece				R. Free Europe - Germany
			Budapest - Hungary				Lobito - Angola
			Murree - Kashmir				Moscow - U.S.S.R.
			Voz de Guardia Civil - Guatemala				BBC, London - Gt. Britain
			Palermo - Italy				Munich (VOA) - Germany
			Tripolis - Greece				AIR, Delhi - India
			R. Nacional, Asuncion - Paraguay				Moscow - U.S.S.R.
			R. Internacional - Guatemala				AIR, Delhi - India
			Voz de Centro America - Guatem.				Allouis - France
			R. Congo Belge - Belgian Congo				BBC, London - Gt. Britain
			R. Citadelle, C. Haitien - Haiti				BFEBS, Singapore - Malaya
			R. Mundial, Lima - Peru				Jannina - Greece
			SWF Baden Baden - Germany				AIR, Delhi - India
			Ulan Bator - Mongolia				Moscow - U.S.S.R.
			Athen FBS - Greece				Warsaw - Poland
			R. Miraflores - Peru				R. Somali - Somaliland (Br.)
			R. Bolivar, Guatemala C. - Guat.				R. Liberation, Munich - Germany
			R. Continental, Arequipa - Peru				Taipei - Taiwan
			R. Independence - Haiti				R. Clube Cabo Verde - C. Verde I.
			East - China				BBC, London - Gt. Britain
			R. Nacional, Lisbon - Portugal				R. Thailand - Thailand
			El Eco de Honduras - Honduras				R. S.E.U., Madrid - Spain
			R. Nacional, Lisbon - Portugal				R. Free Europe - Germany
			La Voix du Nord - Haiti				Karachi - Pakistan
			Techn. University, Istanbul - Turk				R. Cl. de Angola, Luanda - Angola
			R. Tropiques, Port au Prince -				Damascus - Syria
			R. America, Tegucigalpa - Hond.				R. Free Europe - Germany
			Khartoum - Sudan				Warsaw - Poland
			Cadena Azul, Habana - Cuba				BBC, London - Gt. Britain
			R. Mundial, Managua - Nicarag.				R. Elisabeth Elisabeth, - B. Congo
			Moscow - U.S.S.R.				Berlin I - Germany (DDR)
			R. Herakleion, Canea - Greece				Dacca - Pakistan
			North-West - China				Karachi - Pakistan
			R. Excelsior, S. José - Costa Rica				AIR, Delhi - India
			North East - China				R. Free Europe - Germany
			R. Azul, Cerro de Pasco - Peru				Allouis - France
			R. San Cristobal, Lima - Peru				Okinawa (VOA) - Ryukyu Isl.
			R. Panamericana, Manag. - Nica.				Tangier (VOA) - Tangier
			R. Callao, Callao - Peru				R. Club de Benguela - Angola
			R. Colonial, Antigua - Guatemala				Kiev - U.S.S.R.
			R. Tirana - Albania				Moscow - U.S.S.R.
			Chios - Greece				R. Free Europe - Germany
			Voz del Pacifico, Mazatenango -				AIR, Delhi - India
			Guatemala				Radio St. Denis - Reunion
			Izmir - Turkey				R. Free Europe - Germany
			R. Morse, Quezatenango - Guate.				Warsaw - Poland
			R. Quinta Piedad, Guayaq. - Ecu.				Moscow - U.S.S.R.
			R. Kurdistan - Iran				R. Clube Mindelo - C. Verde Isl.
			R. Oriental, Zacapa - Guatemala				Tokyo - Japan
			Geneva - Switzerland				R. Free Europe - Germany
			R. Monserrat, Tegucigalpa - Hin.				BBC, London - Gt. Britain
			Chania - Greece				Moscow - U.S.S.R.
			Techn. School, Istanbul - Turkey				AIR, Delhi - India
			Stalinabad - U.S.S.R.				Colombo - Ceylon

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
7192	41.72	7.5/50	R. Free Europe - Germany	7275	41.24		Johannesburg - South Africa
7193	41.72	5	R. Africa-Maghreb - Tangier	7275	41.24	5/100	AIR, Delhi - India
7193	41.72	5	R. Africa, Tanger - Tangier	7280	41.20	50	Shepparton - Australia
7200	41.67	0.75	S. Isabel, Fern. Poo Isl. - Sp. Guin.	7280	41.21	100	Shepparton - Australia
7200	41.67	50	BBC, London - Gt. Britain	7280	41.21	1	Douala - Cameroun (Fr.)
7200	41.67	35	Courier (VOA) - Dodecan. Isl.	7280	41.21	0.3	Davao City - Philippines
7200	41.67	50	Moscow - U.S.S.R.	7280	41.21	100	Allouis - France
7200	41.67	35/50/100	Tangier (VOA) - Tangier	7280	41.21	50	BBC, London - Gt. Britain
7200	41.67	5	Singapore - Malaya	7280	41.21	5/25/50	Vatican City - Italy
7200	41.67	0.25	R. College, Elisabethv. - B. Congo	7280	41.21	50	Moscow - U.S.S.R.
7200	41.67	10/100	R. Yugoslavia - Yugoslavia	7284	41.19	1	Lahore - Pakistan
7203	41.65	1	Silva Porto - Angola	7285	41.18	100	R. Ankara - Turkey
7205	41.63	1	R. Hué - Indo China	7285	41.18	5	Tokyo - Japan
7205	41.64	7.5/100	Warsaw - Poland	7285	41.18	7.5/50	R. Free Europe - Germany
7210	41.61	5/100	AIR, Delhi - India	7288	41.17	12	Saigon - Indo China
7210	41.61	0.25/10	AIR, Calcutta - India	7290	41.15	5/100	AIR, Delhi - India
7210	41.61	50	BBC, London - Gt. Britain	7290	41.15	7.5	Wellington - New Zealand
7210	41.61	40	Lopik 4 - Holland	7290	41.15	3	Pan American Radio - Tangier
7210	41.61	100	Hörby - Sweden	7290	41.15	20	Deutsche-Welle, Köln - Germany
7210	41.61	10	Tromsø - Norway	7290	41.15	50/60/100	RAI, Rome - Italy
7210	41.61	25/100	Schwarzenburg - Switzerland	7295	41.12	0.25	R. Clube Tenerife - Canary Islands
7214	41.59	50	Tangier (VOA) - Tangier	7295	41.12	0.3	Makassar - Indonesia
7215	41.59	50	Moscow - U.S.S.R.	7295	41.12		Johannesburg - South Africa
7215	41.59	1	R. Lao - Indo China	7295	41.12	8/100	Munich (VOA) - Germany
7215	41.59	0.6	R. Abidjan - Ivory Coast (Fr.)	7295	41.12	50	Moscow - U.S.S.R.
7220	41.55	50	Shepparton - Australia	7300	41.10	7.5/50	R. Free Europe - Germany
7220	41.55	7.5	Wellington - New Zealand	7300	41.10	50/60/100	RAI, Rome - Italy
7220	41.55	100	Djakarta - Indonesia	7300	41.10	50	Moscow - U.S.S.R.
7220	41.55	100	Budapest - Hungary	7300	41.10	3.5	The Voice of Righteousness - Taiw.
7220	41.55	100	Allouis - France	7300	41.09	7.5	Athens - Greece
7220	41.55	35/50/100	Tangier (VOA) - Tangier	7310	41.04	50	Moscow - U.S.S.R.
7220	41.55	2.5	R. Lusaka - N. Rhodesia	7315	41.00	1.5	Voz de la Democracia - El Salvad.
7225	41.52	5/100	AIR, Delhi - India	7315	41.00	0.25	R. Cotoneau, Dahom. - Fr. W. Afr.
7225	41.52	50	Moscow - U.S.S.R.	7320	40.98	5	Edmonton - Canada
7230	41.49	5/100	AIR, Delhi - India	7320	40.98	50	BBC, London - Gt. Britain
7230	41.49		Johannesburg - S. Africa	7320	40.98	50	Moscow - U.S.S.R.
7230	41.49	1	Mocamedes - Angola	7330	40.93	50	Moscow - U.S.S.R.
7230	41.49	25	R. France Asie, Saigon - Vietnam	7340	40.87	50	Moscow - U.S.S.R.
7230	41.49	0.25	Oviedo - Spain	*7350	40.81	0.2	R. Cenit, Guayaquil - Ecuador
7230	41.49	50	BBC, London - Gt. Britain	7350	40.81	30	Monte Carlo - Monaco
7235	41.47	50	Moscow - U.S.S.R.	7360	40.76	50	Moscow - U.S.S.R.
7235	41.47	35/50/100	Tangier (VOA) - Tangier	7375	40.68	0.25	Tananarive - Madagascar
7237	41.45	0.25	Jesselton - North Borneo	7380	40.65	50	Moscow - U.S.S.R.
7240	41.44	5/100	AIR, Delhi - India	7380	40.65	1	Voz de la Falange, Madrid - Spain
7240	41.44	50	Shepparton - Australia	7385	40.62	1	Sanaa - Yemen
7240	41.44	10	Tromsø - Norway	7400	40.54	0.5	Academia Militar - Nicaragua
7240	41.44	7.5	Medan - Indonesia	7408	40.50	1	R. Hirondele, Hanoi - Indo-China
7240	41.44	20	R. Ankara - Turkey	*7420	40.45	0.3	Mogodishu - Italian Somaliland
7240	41.44	35/50/100	Tangier (VOA) - Tangier	7420	40.45	1	Athen, FBS - Greece
7240	41.44	100	Allouis - France	*7430	40.40	1	Basse-Terre - Guadeloupe
7240	41.44	10/100	R. Yugoslavia - Yugoslavia	7440	40.35	0.4	Salonika - Greece
7240	41.44	0.25/10	AIR, Bombay - India	7470	40.16	0.25	Voz de Occidente - Guatemala
7245	41.41	0.25	R. Cenit, Manta - Ecuador	7500	40.00		Peking - China
7245	41.41	0.3	Wien II, Austria	7547	39.75	5	Bridgetown - Barbados
7245	41.41	0.2	Malange - Angola	7570	39.63	0.5	Angmagssalik - Greenland
7245	41.41	3	Djeddah - Saudi Arabia	7580	39.58	0.5	Kavalla - Greece
7245	41.41	50	Moscow - U.S.S.R.	7620	39.34	0.4	Voz del Mombacho - Nicaragua
7250	41.38	5/100	AIR, Delhi - India	7655	39.19	50	Karachi - Pakistan
7250	41.38	8/100	Munich (VOA) - Germany	7660	39.16	1	R. Yungay, Santiago - Chile
7250	41.38	50	BBC, London - Gt. Britain	7670	39.11	5	Sofia III - Bulgaria
7250	41.38	5/25/50	Vatican City - Italy	7805	38.43	0.2	Noyo Redondo - Angola
7250	41.38	3	Surakarta - Indonesia	7850	38.20	3	R. Tirana - Albania
7250	41.38	35/50/100	Tangier (VOA) - Tangier	*7850	38.20	0.4	R. Sport, Granada - Nicaragua
7250	41.38	35	Colombo (VOA) - Ceylon	7859	38.16	0.5	Pitcairn Island
7254	41.36	7.5	R. Clube de Mozambique - Moz.	7865	38.14	0.1	Ond. Culturales, Masaya - Nicar.
7255	41.35	8/100	Munich (VOA) - Germany	7935	37.81	1	Pusan - S. Korea
7255	41.36	7.5/100	Warsaw - Poland	7935	37.81	1.5	Argencia Nacional - Brazil
7255	41.36	5/100	AIR, Delhi - India	7940	37.78	0.75	Alicante - Spain
7255	41.36		Cape Town - South Africa	7950	37.74	0.6	Kozani - Greece
7256	41.35	100	R. Sofia - Bulgaria	7960	37.70		R. Ahwaz - Iran
7257.5	41.34	5	Tokyo - Japan	8000	37.50	2	Tokyo - Japan
7258	41.33	0.3	Beira - Mozambique	8000	37.50		Ulan Bator - Mongolia
7260	41.32	50	Herstedvester - Denmark	8007	37.46	0.1	Voz de Jinotepe - Nicaragua
7260	41.32	50	BBC, London - Gt. Britain	8015	37.42		R. Meshed - Iran
7260	41.32	7.5/100	BFEBS, Singapore - Malaya	8036	37.34	2	Beyrouth - Lebanon
7260	41.32	100	R. Nacional, Lisbon - Portugal	8100	37.00	0.1	R. Korca - Albania
7260	41.32	50	Moscow - U.S.S.R.	8110	36.96	7	Teheran - Iran
7260	41.32	0.25/10	AIR, Madras - India	8215	36.52	0.2	R. Shkodra - Albania
7260	41.32	5/100	AIR, Delhi - India	8230	36.45	0.25	Mafeking - Bechuanaland
7263	41.31	50	Karachi - Pakistan	8300	36.10	0.1	Dundo - Angola
7265	41.29	1	R. Dalat, Dalat - Vietnam	8300	36.10	0.05	Sa da Bandeira - Angola
7265	41.29	0.4	Nairobi, FBS - Kenya	8570	35.00	0.1	Vlore - Albania
7270	41.27	1	Djakarta - Indonesia	8630	34.76	1	R. Corporation, Habana - Cuba
7270	41.27	12	Motala - Sweden	8663	34.63	1	Voz del Camagüeyana - Cuba
7270	41.27	35	Salonika (VOA) - Greece	8825	33.92	1	Circuito CMQ, Habana - Cuba
7270	41.27	5/25/50	Vatican City - Italy	8955	33.50	1	Cadena Oriental de Radio - Cuba
7270	41.27	35/50/100	Tangier (VOA) - Tangier	9000	33.33	0.15	Petionville Broadc. S. - Haiti

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
9009	33.30	7.5	4XB31 Tel-Aviv - Israel	9535	31.46	100	Hörby - Sweden
9026	33.23	1	COBZ R. Salas, Habana - Cuba	9535	31.46	25/100	HER4 Schwarzenburg - Switzerland
9030	33.22	1	COBZ R. Salas, Habana - Cuba	9540	31.45	100	VLB9 Shepparton - Australia
9040	33.19		Peking - China	9540	31.45	50	VLC9 Shepparton - Australia
9047	33.16	1	HRA "La Voz de Lempira" - Honduras	9540	31.45	10	VLG9 Lyndhurst - Australia
9050	33.15	0.1	CR6RJ Sa da Bandeira - Angola	9540	31.45	0.2	VE9A1 Edmonton - Canada
9144	32.80	100	ORU3 Brussels - Belgium	9540	31.45	1	COBQ R. Onda Musical, Habana - Cuba
*9200	32.60	1	CE920 R. Militar Austral, P. Aren. - Chile	9540	31.45	0.5	YSLI S. Salvador en el Aire - El Salvador
9200	32.61	0.5	ZBP Pitcairn Island	9540	31.45	100	Allouis - France
9210	32.57	20	OTH R. Congo Belge - Belgian Congo	9540	31.45	8/100	Munich (VOA) - Germany
9235	32.49	1	COBQ R. Onda Musical, Habana - Cuba	9540	31.45	7.5	ZL2 Wellington - New Zealand
9250	32.44	1	YSF R. Vanguardia - El Salvador	9540	31.45	10	LKJ2 Tromsø - Norway
9254	32.43	4	Bucarest - Rumania	9543	31.44	7.5	Rangoon - Burma
9260	32.50	1.5	JJC Chiba - Japan	9545	31.43	0.25	XEFT La Voz de Vera Cruz - Mexico
9273	32.33	1	COCX Talleres Tipograficos, Hab. - Cuba	9545	31.43	35/50/100	Tangier (VOA) - Tangier
9290	32.28	5	PRN9 A Voz da Policia Federal - Brazil	9545	31.43	75/200	WLWO Bethany - U.S.A.
9310	31.22	10	CR8AB R. Goa - Port. India	9545	31.43	10	Petropavlovsk - U.S.S.R.
9340	32.10	0.5	CR6RI Dundo - Angola	9550	31.41	30	OLR3A Prague - Czechoslovakia
*9340	32.10	0.25	OAX4J R. Colonial, Lima - Peru	9550	31.41	100	Allouis - France
9340	32.10	10	Alma Ata - U.S.S.R.	9550	31.41	50	GWB BBC, London - Gt. Britain
9362	32.05	1	COBC R. Progreso, Habana - Cuba	9550	31.41	0.25/10	VUB AIR, Bombay - India
9370	32.01	40	Madrid (RNE) - Spain	9550	31.41	5/100	VUD AIR, Delhi - India
9380	31.99	20/50	OTM2 R. Congo Belge - Belgian Congo	9550	31.41	8	YDQ2 Makassar - Indonesia
9380	31.98	10	Alma Ata - U.S.S.R.	9550	31.41	5/25/50	Vatican City - Italy
*9405	31.90	0.5	OAX4W R. America, Lima - Peru	9550	31.41	5	JKI22 Tokyo - Japan
9410	31.88	50	GRI BBC, London - Gt. Britain	9550	31.41	10	LLD Tromsø - Norway
9420	31.85	50/60/100	RAI, Rome - Italy	9550	31.41	0.3	DZI2 San Juan - Philippines
9440	31.78	7	Brazzaville - Fr. Eq. Africa	9550	31.41	50	WRCA Bound Brook - U.S.A.
9444	31.77	1	CP38 R. La Cruz del Sur, La Paz - Bol.	9550	31.41	50	Moscow - U.S.S.R.
9465	31.70	20	TAP R. Ankara - Turkey	9555	31.40	5	YSS R. Nacional, S. Salvador - El Salv.
9466	31.70	0.5	CP24 R. Abaroa, La Paz - Bolivia	9555	31.40	15	OIX2 Pori - Finland
9475	31.66	100	Cairo - Egypt.	9555	31.40	0.5	XETT La Hora Exacta - Mexico
*9475	31.66	0.2	OAX5C R. Universal, Ica - Peru	9555	31.40	7.5/100	Warsaw - Poland
9480	31.64		North-West - China	9555	31.40	20	Damascus - Syria
9480	31.64	50	Moscow - U.S.S.R.	9560	31.38	100	VLB9 Shepparton - Australia
9480	31.64		Vladivostok - U.S.S.R.	9560	31.38	50	VLC9 Shepparton - Australia
9484	31.63	50	Karachi - Pakistan	9560	31.38	100	Allouis - France
9485	31.63	7.5	4VC R. Commerce Port au Pr. - Haiti	9560	31.38	5/100	VUD AIR, Delhi - India
*9490	31.61	0.1	OAX6H R. Tacna, Tacna - Peru	9560	31.38	50	JBD2 Tokyo - Japan
9490	31.61	0.3	Salisbury - S. Rhodesia	9562	31.37	10	OAX4R R. Nacional, Lima - Peru
9490	31.61	50	Moscow - U.S.S.R.	9565	31.37	64	ZYK3 R. Jornal do Comercio - Brazil
9500	31.58	1	CP6 R. Illimani, La Paz - Bolivia	9565	31.36	5/100	VUD AIR, Delhi - India
9500	31.58	5	CE950 R. Corpor., Santiago - Chile	9565	31.36	50	Moscow - U.S.S.R.
9500	31.58	10	XEWW Voz de la America Lat. - Mexico	9570	31.35	0.35	CP21 R. La Plata, Sucre - Bolivia
9500	31.58	1	DZH3 R. Philippines, Manila - Philippin.	9570	31.35	35	Colombo (VOA) - Ceylon
9500	31.58	35/50/100	Tangier (VOA) - Tangier	9570	31.35	50	GWX BBC, London - Gt. Britain
9500	31.58	5	Minsk - U.S.S.R.	9570	31.35	50/60/100	RAI, Rome - Italy
9500	31.58	50	Moscow - U.S.S.R.	9570	31.35	7.5/100	Warsaw - Poland
9502	31.57	1	CR6RB R. Club de Benguela - Angola	9570	31.35	2	Bucarest - Rumania
9504	31.57	30	OLR3B Prague - Czechoslovakia	9570	31.35	100/200	KCBR Delano - U.S.A.
9505	31.56	50	R. Nacional, R. de Janeiro - Brazil	9575	31.33	20	R. Mayrink Veiga, Rio de J. - Br.
9505	31.56	7.5	PRB22 R. Record, Sao Paulo - Brazil	9575	31.33	5/100	VUD AIR, Delhi - India
9505	31.56	50	JBD Tokyo - Japan	9580	31.32	100	VLA9 Shepparton - Australia
9505	31.56	0.25	HOLA R. Atlantico, Colon - Panama	9580	31.32	100	VLB9 Shepparton - Australia
9505	31.56	10/100	R. Yugoslavia - Yugoslavia	9580	31.32	10	VLG9 Shepparton - Australia
9510	31.55	50	GSB BBC, London - Gt. Britain	9580	31.32	50	GSC BBC, London - Gt. Britain
9510	31.55	0.2	HC1RP R. Catolica, Quito - Ecuador	9585	31.30	50	R. Excelsior, Sao Paulo - Brazil
9510	31.55	5	YVXJ R. Barquisimeto - Venezuela	9585	31.30	50	CKLP R. Canada - Canada
9515	31.53	0.3	FIQA Tananarive - Madagascar	9585	31.30	100	YDF6 Djakarta - Indonesia
9515	31.53	100	TAT R. Ankara - Turkey	9585	31.30	7.5/100	Warsaw - Poland
9515	31.53	50/200	KRCA Dixon - U.S.A.	9585	31.30	50/80/100	WRUL Scituate - U.S.A.
9518	31.52	50	Karachi - Pakistan	9590	31.28	0.25	HI2G Emisoras HIG, C. Truj. - Dom. R.
9520	31.51	7.5	CBFR Montreal - Canada	9590	31.28	40	Huizen 1 - Holland
9520	31.51	35	Colombo - Ceylon	9590	31.28	0.25/10	VUM AIR, Madras - India
9520	31.51	10	HJKF Em. Nuevo Mundo, Bogota - Col.	9590	31.28	5/100	VUD AIR, Delhi - India
9520	31.51	50	OZF5 Herstedvester - Denmark	9590	31.28	50	WDSI Brentwood - U.S.A.
9520	31.51	7.5	ZL18 Wellington - New Zealand	7590	31.28	50/200	KRCA Dixon - U.S.A.
9520	31.51	75/200	WLWO Bethany - U.S.A.	9593	31.27	50	Moscow - U.S.S.R.
*9522	31.50	0.3	OAX4K R. Central, Lima - Peru	9595	31.27	20	R. Cult. da Bahia, Salv. - Brazil
9523	31.50		Johannesburg - S. Africa	9600	31.25	2.5	CE960 R. La Americana, Sant. - Chile
9525	31.50	50	GWJ BBC, London - Gt. Britain	9600	31.25	50	GRY BBC, London - Gt. Britain
9525	31.50	2.5	ZBW3 Hong Kong - Hong Kong	9600	31.25	0.25	XEYU Universidad Nacional - Mexico
9525	31.50	7.5	Damascus - Syria	9600	31.25	7.5/100	Warsaw - Poland
9530	31.48	35	Salonika (VOA) - Greece	9600	31.25		Johannesburg - S. Africa
9530	31.48	0.25/10	VUC AIR, Calcutta - India	9600	31.25	50/200	KCBR Delano - U.S.A.
9530	31.48	5/100	VUD1 AIR, Delhi - India	9600	31.25	50	Leningrad - U.S.S.R.
9530	31.48	7.5/50	Manila (VOA) - Philippines	9605	31.24	5	JKL2 Tokyo - Japan
9530	31.48	35/50/100	Tangier (VOA) - Tangier	9607	31.23	7.5	Athens - Greece
9530	31.48	100/200	KCBR Delano - U.S.A.	9607	31.23	0.25	HP5J La Voz de Panama - Panama
9530	31.48	25/100	WGEO Schenectady - U.S.A.	9607	31.23	7.5/50	R. Free Europe - Germany
9530	31.48	50	WDSI Brentwood - U.S.A.	9610	31.22	2	VLW9 Perth - Australia
9530	31.48	50/80/100	WRUL Scituate - U.S.A.	9610	31.22	10	VLX9 Perth - Australia
9535	31.46	5	COCO Periodico del Aire, Habana - Cuba	9610	31.22	25	ZYC8 R. Tamoio, Rio de Jan. - Brazil
9535	31.46	5	JKD22 Tokyo - Japan	9610	31.22	50	CHLS R. Canada - Canada
9535	31.46	5	XEXF Radiod. Mexico S.A. - Mexico	9610	31.22	7.5	CBFX Montreal - Canada
9535	31.46	7.5/50	Manila (VOA) - Philippines	9610	31.22	10	CR8AB R. Goa - Port. India

kc/s	Metres	kW		Stations	kc/s	Metres	kW		Stations
9610	31.22	5	XERQ	R. Cadena Continental - Mexico	9680	30.99	100		Allouis - France
9610	31.22	5/10/100	LLG	Fredrikstad - Norway	9680	30.99	5/100	VUD	AIR, Delhi - India
9610	31.22			Cape Town - S. Africa	*9680	30.99	20	EQC	Teheran - Iran
9610	31.22	50		Moscow - U.S.S.R.	9680	30.99	1	XEQQ	R. Panamericana - Mexico
9614	31.20	7.5		Dacca - Pakistan	9680	30.99			Johannesburg - S. Africa
9615	31.20	100	VLA9	Shepparton - Australia	9680	30.99	10		Ashkabad - U.S.S.R.
9615	31.20	100	VLB9	Shepparton - Australia	9680	30.99	50		Moscow - U.S.S.R.
9615	31.20	50	VLC9	Shepparton - Australia	9685	30.98	35		Courier (VOA) - Dodecanese Isl.
9615	31.20	4	TIDCR	La Voz de la Victor - Costa Rica	9685	30.98	100		Allouis - France
9615	31.20	7.5/100		Warsaw - Poland	9685	30.98	8/100		Munich (VOA) - Germany
9615	31.20	35/50/100		Tangier (VOA) - Tangier	9685	30.98	35/50/100		Tangier (VOA) - Tangier
9615	31.20	50	WRCA	Bound Brook - U.S.A.	9685	30.98	75/200	WLWO	Bethany - U.S.A.
9615	31.20	25/100	WGEO	Schenectady - U.S.A.	9685	30.98	10		Kaunas - U.S.S.R.
9617	31.20	0.35		Salzburg BDN - Austria	9690	30.96	16	LRA1	R. del Estado, B. Aires - Argentin
*9620	31.19	12	ETHA	Addis Abeba - Ethiopia	9690	30.96	100	LRA	SIRA, B. Aires - Argentina
9620	31.19	100		Allouis - France	9690	30.96	50	GRX	BBC, London - Gt. Britain
9620	31.19	5/100	VUD	AIR, Delhi - India	9690	30.96	7.5/100		BFEBS, Singapore - Malaya
9620	31.19	12		Saigon - Indo China	9690	30.96	0.25	DZH5	University of Santo Tomas, Manila - Philippines
9620	31.19	7.5	ZL8	Wellington - New Zealand					Moscow - U.S.S.R.
9620	31.19	0.2	OBX4K	R. Restauracion, Lima - Peru	9690	30.96	50		La Voz de Costa Rica - Costa R.
9620	31.19	35		S. Fernando (VOA) - Philippines	9692	30.95	3	TIRNH	La Voix Evangelique - Haiti
9620	31.19	100		Hörby - Sweden	9692	30.95	3	4VEH	R. Free Europe - Germany
9620	31.19	20	CXA6	S.O.D.R.E., Montev. - Uruguay	9695	30.94	7.5/50		Tokyo - Japan
9620	31.19	50		Moscow - U.S.S.R.	9695	30.94	5/50	JOA3/JKM2	Sofia IV - Bulgaria
9620	31.19	10/100		R. Yugoslavia - Yugoslavia	9700	30.93	100		R. Corp. Vitalicia, Valp. - Chile
9625	31.17	50	GWO	BBC, London - Gt. Britain	9700	30.93	1	CE970	BBC, London - Gt. Britain
9625	31.17	10	XEBT	Las Emisor. de America - Mexico	9700	30.93	50	GWY	R. Central, Guatemala C. - Guat.
9625	31.17	1	YVMC	R. Popular - Venezuela	9700	30.93	1	TGCQ	Fort de France - Martinique
9630	31.15	50	CKMO	R. Canada - Canada	9700	30.93	0.4	FNRI	Tangier (VOA) - Tangier
9630	31.15	7.5	CBFO	Montreal - Canada	9700	30.93	35/50/100		Bethany - U.S.A.
9630	31.15	5/100	VUD	AIR, Delhi - India	9700	30.93	75/200	WLWO	Bound Brook - U.S.A.
9630	31.15	50/60/100		RAI, Rome - Italy	9700	30.93	50	WRCA	Delano - U.S.A.
9632	31.15	1	CK6RL	R. Clube de Angola, Lua. - Angola	9700	30.93	50/200	KCBR	Nova Lisboa - Angola
9635	31.14	50	ZYR64	R. Emis. de Piratininga - Brazil	9705	30.91	1	CR6RQ	Brussels - Belgium
9635	31.14	35/50/100		Tangier (VOA) - Tangier	9705	30.91	20	ORU5	AIR, Delhi - India
9640	31.12	5	LRV	R. Belgrano, B. Aires - Argentina	9705	30.91	5/100	VUD	R. Dakar-Afrigue - F. W. Africa
9640	31.12	5	YVSC	R. Nacional - Venezuela	9710	30.90	18		AIR, Delhi - India
9640	31.12	5	COX4	Ministerio de Educacion - Cuba	9710	30.90	5/100	VUD	Djakarta - Indonesia
9640	31.12	100		Allouis - France	9710	30.90	50	YDF6	RAI, Rome - Italy
9640	31.12	50	GVZ	BBC, London - Gt. Britain	9710	30.90	50/60/100		Moscow - U.S.S.R.
9640	31.12	1	DZH2	Voice of the Philippin. - Manila	9710	30.90	50		R. Free Europe - Germany
9640	31.12	50		Moscow - U.S.S.R.	9712	30.89	7.5/50		La Voz del Hogar, S. José - Co. R.
9645	31.10	7.5	ZYV40	R. Cult., Pocos de Caldas - Brazil	9714	30.88	1	TIOCHO	R. Nacional, Managua - Nicarag.
9645	31.10	0.3	HOJA	R. Provincias, Chitre - Panama	9715	30.88	2	YNV	R. Free Europe - Germany
9645	31.10	1	TIFC	Faro del Caribe, S. Jose - C. Rica	9717.5	30.87	7.5/50		R. Nacional, Rio de J. - Brazil
9645	31.10	5/10/100	LLH	Fredrikstad - Norway	9720	30.86	50	PRL7	AIR, Delhi - India
9645	31.10	50		Karachi - Pakistan	9720	30.86	5/100	VUD	Moscow - U.S.S.R.
9646	31.10	5/25/50		Vatican City - Italy	9720	30.86	50		R. Free Europe - Germany
9650	31.09	100	VLB9	Shepparton - Australia	9725	30.85	7.5/50		La Voix Evangelique, - Haiti
9650	31.09	50	WDSI	Brentwood - U.S.A.	9729	30.83	3	4VEH	Deutschlands. (DDR) - Germany
9650	31.09	5	ZJM8	Sharq al Adna - Cyprus	9730	30.83	12		"The Call of the Orient" - Philip.
9650	31.09	100		Honolulu (VOA) - Hawaii	9730	30.83	2	DZH7	La Voz Dominicana - Dom. Rep.
9650	31.09	3		Djeddah - Saudi Arabia	9735	30.82	7.5	HI2T	BBC, London - Gt. Britain
9650	31.09	35/50/100		Tangier (VOA) - Tangier	9735	30.82	50	GWY	Onda Popular - Panama
9655	31.07	7.5/50		R. Free Europe - Germany	9735	30.82	1	HOH7	R. Stentor, Asuncion - Paraguay
9655	31.07	50	OTC	Leopoldville - Belgian Congo	9735	30.82	1	ZPA4	Circuito CMQ, Habana - Cuba
9655	31.07	5	JKI2	Tokyo - Japan	9740	30.80	1	COCQ	AIR, Delhi - India
9655	31.07	50		Moscow - U.S.S.R.	9740	30.80	5/100	VUD	R. Nacional, Lisbon - Portugal
9657	31.07	1		Douala - Cameroon (Fr.)	9740	30.80	100		Moscow - U.S.S.R.
9660	31.06	5	LRX	R. El Mundo, B. Aires - Argentina	9740	30.80	50		R. Splendid, B. Aires - Argentina
9660	31.06	10	VLQ9	Brisbane - Australia	9742.5	30.79	5	LR5	Brussels - Belgium
9660	31.06	50	GWP	BBC, London - Gt. Britain	9745	30.78	100	ORU3	R. Cultura, Sao Paulo - Brazil
9660	31.06	5/100	VUD	AIR, Delhi - India	9745	30.78	7.5	ZYR57	Huizen 3 - Holland
9660	31.06	5/25/50		Vatican City - Italy	9745	30.78	5		Voz de los Andes, Quito - Ecuador
9660	31.06	50		Moscow - U.S.S.R.	9745	30.78	1	HCJB	R. Nacional, Lisbon - Portugal
9664	31.04	0.3		Wien II, - Austria	9746	30.78	50		R. Free Europe - Germany
9665	31.04	25/100	HEU3	Schwarzenburg - Switzerland	9750	30.77	7.5/50		AIR, Delhi - India
9668	31.03	5	TGNB	R. Cultural, Guatemala C. - Guat.	9750	30.77	5/100	VUD	Moscow - U.S.S.R.
9670	31.02	1	COCQ	Circuito CMQ - Cuba	9750	30.77	50		R. France Asie, Saigon - Vietnam
9670	31.02	8/100		Munich (VOA) - Germany	9750	30.77	25		Allouis - France
9670	31.02	5/100	VUD	AIR, Delhi - India	9755	30.76	100		Karachi - Pakistan
9670	31.02	1		R. Hanoi - Indo China	9755	30.75	50		R. Belgrano, B. Aires - Argentina
9670	31.02	100		R. Nacional, Lisbon - Portugal	9760	30.74	5	LRV	BBC, London - Gt. Britain
9670	31.02	35/50/100		Tangier (VOA) - Tangier	9760	30.74	50	MCR	R. Nacional, Guatemala C. - Gua.
9670	31.02	50		Kiev - U.S.S.R.	9760	30.74	10	TGWA	Radio Clube de Mozambique - M.
9670	31.02	50		Moscow - U.S.S.R.	9762	30.73	7.5	CR7BJ	Allouis - France
9670	31.02	50/200	KRCA	Dixon - U.S.A.	9765	30.72	100		AIR, Delhi - India
9675	31.01	7.5	PRC22	R. Gaucha, P. Alegre - Brazil	9765	30.72	5/100	VUD	Brussels - Belgium
9675	31.01	100		Allouis - France	9767	30.71	100	ORU4	R. Ministerio de Educacao, Rio de Janeiro - Brazil
9675	31.01	50	JOB3	Tokyo - Japan	9770	30.70	1	PRL4	BBC, London - Gt. Britain
9675	31.01	50	GWT	BBC, London - England					R. Free Europe - Germany
9680	30.99	5	VLR9	Melbourne - Australia	9770	30.71	50	MCN	RAI, Rome - Italy
9680	30.99	10	VLH9	Melbourne - Australia	9775	30.68	7.5/50		Moscow - U.S.S.R.
9680	30.99	100	VLA9	Shepparton - Australia	9780	30.67	50/60/100		Moscow - U.S.S.R.
9680	30.99	100	VLB9	Shepparton - Australia	9780	30.67	50		Radio Clube de Mozambique - M.
9680	30.99	50	VLC9	Shepparton - Australia	9800	30.61	50		
9680	30.99	10	VLG9	Lyndhurst - Australia	9804	30.60	10	CR7BE	

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations	
9825	30.53	50	GRH	BBC, London - Gt. Britain	11750	25.53	50	Moscow - U.S.S.R.
9833	30.51	1	COBL	R. Cadena Suaritos, Hab. - Cuba	11755	25.52	7.5/50	R. Free Europe - Germany
9833	30.51	100		Budapest - Hungary	11760	25.51	35/50/100	Tangier (VOA) - Tangier
9840	30.50	10		Baku - U.S.S.R.	11760	25.51	100	VLA11
9856	30.44			Kathmandu - Nepal	11760	25.51	100	VLB11
9870	30.40			Johannesburg - S. Africa	11760	25.51	50	VLC11
9900	30.32	6.5		Khartoum - Sudan	11760	25.51	10	VLG11
9915	30.26	50	GRU	BBC, London - Gt. Britain	11760	25.51	7.5	CBFA
9915	30.26	50	HRU	BBC, London - Gt. Britain	11760	25.51	30	OLR4A
9970	30.08	1.5		Radio AEF - Fr. Eq. Africa	11760	25.51	5/100	VUD
9975	30.08	5		R. Kabul - Afghanistan	11760	25.51	20	TAK
10000	30.00	2	WWVH	Puunene - Hawaii	11760	25.51	35/50/100	
10000	30.00	1	JJY	Tokyo - Japan	11765	25.50	7.5	CR7BF
10000	30.00	0.5	MSF	Teddington - Gt. Britain	11765	25.50	25	ZYB8
10000	30.00	9	WWV	Washington - U.S.A.	11765	25.50	50	
10075	29.78	0.5	4VRW	R. Haiti, Port au Prince - Haiti	*11767	25.49	1	YSG
*10200	29.40	1.5	BEC26	Military Station - Taiwan	11770	25.49	100	VLA11
10220	29.35	1.5	PSH	Agencia Nacional, Rio de J. - Brz.	11770	25.49	100	VLB11
10260	29.24			Peking - China	11770	25.49	50	GVU
11000	27.27			South-West - China	11770	25.49	7.5	YDE
11090	27.05	1	CSA92	Ponta Delgada - Azores	11770	25.49	100	YDF2/7
11560	25.92	1	CMA5	R. Corporacion, Habana - Cuba	11770	25.49	50	
11570	25.93	50		Karachi - Pakistan	11770	25.49	50/200	KCBR
11580	25.91	50		Karachi - Pakistan	11770	25.49	50	WRCA
11630	25.79	50		Moscow - U.S.S.R.	11775	25.48	8/100	
11650	25.75	1	COCX	Talleres Tipograficos, Hab. - Cuba	11775	25.48	50	WRCA
11650	25.75	50		Karachi - Pakistan	11775	25.48	20	
11670	25.70	20	OTH	Radio Congo Belge - Belgian C.	11780	25.47	5/100	VUD
11674	25.70	50		Karachi - Pakistan	11780	25.47	50	JOB4
11680	25.68	3	HJCQ	R. Nacional, Bogota - Colombia	11780	25.47	0.5	XENN
11680	25.68	50	GRG	BBC, London - Gt. Britain	11780	25.47	7.5	ZL3
11685	25.67	5/25/50		Vatican City - Italy	11780	25.47	0.8	HP5G
11685	25.67	10		Magadan - U.S.S.R.	11780	25.47	50	
11690	25.66			Peking - China	11785	25.46	0.2	
11695	25.65	20		Damascus - Syria	11785	25.46	50	
11700	25.64	100		Allouis - France	11790	25.45	50	GWV
11700	25.64	50	GVW	BBC, London - Gt. Britain	11790	25.45	100	
11700	25.64	0.5	HP5A	Cadena Panamena de Radiod. - P.	11790	25.45	5/100	VUD
11700	25.64	35		S. Fernando (VOA) - Philippines	11790	25.45	50	WRCA
11700	25.64	50	HSK9	R. Thailand - Thailand	11790	25.45	50	WDSI
11705	25.63	50	JOA4	Tokyo - Japan	11790	25.45	50/200	KRCA
11705	25.63	100		Hörby - Sweden	11790	25.45	75/200	WLWO
11705		7.5	CBFY	Montreal - Canada	11790	25.45	50	
11705	25.63	50	CKXA	R. Canada - Canada	11795	25.43		
11710	25.62	100	VLA11	Shepparton - Australia	11795	25.44	20	
11710	25.62	10	VLG11	Lyndhurst - Australia	11795	25.43	100	YDF3
11710	25.62	5/100	VUD	AIR, Delhi - India	*11800	25.42	1	CEI180
11710	25.62	35/50/100		Tangier (VOA) - Tangier	11800	25.42	1	COBH
11710	25.62	75/200	WLWO	Bethany - U.S.A.	11800	25.42	50	GWH
11710	25.62	50		Moscow - U.S.S.R.	11800	25.42	50	JK14
11715	25.61	25/100	HEI5	Schwarzenburg - Switzerland	11800	25.42	0.2	OBX4J
11718	25.60	7.5		Athens - Greece	11805	25.41	35	
11720	25.60	50	OTM4	R. Congo Belge - Belgian Congo	11805	25.41	8/100	
11720	25.60	0.25	OQ2AA	R. Leo, Leopoldv. - Belg. Congo	11805	25.41	0.3	HC2FW
11720	25.60	50	PRL8	R. Nacional, Rio de J. - Brazil	11805	25.41	50	
11720	25.60	7.5	CBF1	Montreal - Canada	11810	25.10	100	VLA11
11720	25.60	50	CHOL	R. Canada - Canada	11810	25.40	100	VLB11
11720	25.60	2	CKRX	Winnipeg - Canada	11810	25.40	50	VLC11
11720	25.60	7.5	ZJM7	Sharq al Adna - Cyprus	11810	25.40	5/100	VUD
11720	25.60	50		Moscow - U.S.S.R.	11810	25.40	50/60/100	
11724	25.58	16		Baghdad - Iraq	11810	25.40	7.5	ZL9
11725	25.58	7.5/50		R. Free Europe - Germany	11810	25.40	0.5	HOXB
11725	25.58	50	JOB6	Tokyo - Japan	11810	25.40	50/200	KCBR
11726	25.58	50		Karachi - Pakistan	11810	25.40	50	
11730	25.58	100	LRA	SIRA, B. Aires (inact.) - Argent.	11815	25.39	2	YNV
11730	25.58	50	GVV	BBC, London - Gt. Britain	11820	25.38	50	GSN
11730	25.58	40		Lopik 4 - Holland	11820	25.38	5/100	VUD
11730	25.58	50/80/100	WRUL	Scituate - U.S.A.	11820	25.38	7.5/100	
11735	25.56	20	PRD22	R. Cruzeiro do Sul, Rio de J. - Brz.	11820	25.38	0.15	XEBR
11735	25.56	35		Salonika (VOA) - Greece	11820	25.38	10	
11735	25.56	5/10/100	LKQ	Fredrikstad - Norway	11825	25.37	64	ZYK32
11735	25.56	50	BED6	Taipeh - Taiwan	11825	25.37	5	JK16
11735	25.56	5	CXA7	R. Oriental, Montevideo - Urug.	11830	25.36	2	VLW11
11735	25.56	10/100		R. Yugoslavia - Yugoslavia	11830	25.36	35/50/100	
11740	25.55	100	VLB11	Shepparton - Australia	11830	25.36	50	WDSI
11740	25.55	5	CEI174	R. Nuevo Mundo, Santiago - Chile	11830	25.36	25/100	WGEO
11740	25.55	1	COCY	Cadena Azul, Habana - Cuba	11830	25.36	50	
11740	25.55	5/25/50		Vatican City - Italy	11830	25.36	5/100	VUD
11740	25.55	7.5/100		Warsaw - Poland	11835	25.35	35	
11740	25.55	50/80/100	WRUL	Scituate - U.S.A.	11835	25.35	5	CXA19
11740	25.55	50		Moscow - U.S.S.R.	11836	25.35	100	
11745	25.54	50	ZYR65	R. Emissora de Piratininga, Sao Paulo - Brazil	11840	25.34	10	
11745	25.54	7.5/50		R. Free Europe - Germany	11840	25.34	10	LRT
11750	25.53	50	GSD	BBC, London - Gt. Britain	11840	25.34	10	VLG11
11750	25.53	0.5		Damascus - Syria	11840	25.34	50	VLC11
11750	25.53	10		Komsomolsk - U.S.S.R.	11840	25.34	30	OLR4A
					11840	25.34	50	GWQ
								BBC, London - Gt. Britain

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations	
11840	25.34	0.25	DUH5	The Peoples Station, Man. - Phil.	11950	25.10	1 PRL5	R. Ministerio de Educacao, Rio de Janeiro - Brazil
11840	25.34	50		Moscow - U.S.S.R.				Huizen 3 - Holland
11845	25.32	100		Allouis - France	11950	25.10	5	AIR, Delhi - India
11845	25.33	35		Salonika (VOA) - Greece	11950	25.10	5/100 VUD	R. Encarnacion - Paraguay
11845	25.33	50		Karachi - Pakistan	11950	25.10	2.5 ZPA5	Djeddah - Saudi Arabia
11845	25.33	35/50/100		Tangier (VOA) - Tangier	11950	25.10	3	BBC, London - Gt. Britain
11850	25.32	3		Djeddah - S. Arabia	11955	25.09	50 GVV	BFEBS, Singapore - Malaya
11850	25.32	10	VLG11	Lyndhurst - Australia	11955	25.09	7.5/100	Moscow - U.S.S.R.
11850	25.32	100	VLA11	Shepparton - Australia	11955	25.09	50	BBC, London - Gt. Britain
11850	25.32	100	VLB11	Shepparton - Australia	11960	25.08	50 MCT	AIR, Delhi - India
11850	25.32	100/20	ORU5/4	Brussels - Belgium	11960	25.08	5/100 VUD	R. Nacional, Lisbon - Portugal
11850	25.32	2.5	CE1185	R. El Mercurio, Santiago - Chile	11960	25.08	100	Moscow - U.S.S.R.
11850	25.32	5	TGNC	R. Cultural, Guatem. C. - Guate.	11960	25.08	50	R. Nacional, Lisbon - Portugal
11850	25.32	5/100	VUD	AIR, Delhi - India	11964	25.07	10/100	Cairo - Egypt
11850	25.32	5/10/100	LLK	Fredrikstad - Norway	11965	25.07	100	Brazzaville - Fr. Eq. Africa
11850	25.32	1.2	ZPA3	R. Teleco, Asuncion - Paragua	11970	25.06	50	Moscow - U.S.S.R.
11850	25.30	3	GSE	BBC, London - Gt. Britain	11975	25.05	35	Colombo - Ceylon
11855	25.31	7.5/50		R. Free Europe - Germany	11980	25.04	50	Moscow - U.S.S.R.
11855	25.31	2	DZH9	Far East Bro. Co., Manila - Philip.	*11985	25.03	2.5 CE1198	R. Soc. Nac. de Minería - Chile
11865	25.28	7.5	PRC23	R. Gaucha, Porto Alegre - Brazil	11996	25.01	100	R. Nacional, Lisbon - Portugal
11865	25.28	25/100	HER5	Schwarzenburg - Switzerland	12020	24.96	50	Moscow - U.S.S.R.
11870	25.27	50	VLC11	Shepparton - Australia	12032	24.94	0.075	Bucarest - Rumania
11870	25.27	8/100		Munich (VOA) - Germany	12040	24.92	50	BBC, London - Gt. Britain
11870	25.27	5/100	VUD	AIR, Delhi - India	12095	24.80	50	BBC, London - Gt. Britain
11870	25.27	35/50 100		Tangier (VOA) - Tangier	12110	24.77	0.5 ZBP	Pitcairn Island
11870	25.27	50/200	KRCA	Dixon - U.S.A.	12175	24.64	7	Reykjavik - Iceland
11870	25.27	50		Moscow - U.S.S.R.	12300	24.39	0.5 OZL	Angmagssalik - Greenland
11875	25.26	35		Colombo (VOA) - Ceylon	12865	23.32	0.5 CSB51	Paredo - Portugal
11875	25.26	30	OLR4C	Prague - Czechoslovakia	13890	21.55	1.5 JJC	Chiba - Japan
11875	25.26	8/100		Munich (VOA) - Germany	14690	20.42	1.5 PSF	Agencia Nacional, Rio de J. - Brz.
11880	25.25	50	LRS	SIRA, B. Aires - Argentina	15000	20.00	2 WWVH	Puunene - Hawaii
11880	25.25	10	VLG11	Lyndhurst - Australia	15000	20.00	9 WWV	Washington - U.S.A.
11880	25.25	10	VLH11	Melbourne - Australia	15030	19.95	100	R. Nacional, Lisbon - Portugal
11880	25.25	100	VLA11	Shepparton - Australia	15054	19.93	3 ETAA	Adis Abeba - Ethiopia
11880	25.25	100	VLB11	Shepparton - Australia	15060	19.92		Peking - China
11880	25.25	50	GRE	BBC, London - Gt. Britain	15070	19.91	50 GWC	BBC, London - Gt. Britain
11880	25.25	35		Salonika (VOA) - Greece	15085	19.89	5/100 VUD	AIR, Delhi - India
11880	25.25	1	XEHH	La Voz Potisina - Mexico	15090	19.88	50 CKLX	R. Canada - Canada
11880	25.25	100		Hörby - Sweden	15090	19.88	7.5 CBLX	Montreal - Canada
11885	25.24	7/50		R. Free Europe - Germany	15090	19.88	1.5	Forest Side - Mauritius
11885	25.24	50		Karachi - Pakistan	15095	19.87	5/25/50	Vatican City - Italy
11890	25.23	50	GWV	BBC, London - Gt. Britain	15100	19.87	100	Allouis - France
11890	25.23	5/100	VUD	AIR, Delhi - India	15100	19.87	7/20 EPB	Teheran - Iran
11890	25.23	7.5/50		Manila (VOA) - Philippines	15100	19.87	0.25 HOM51	R. Elebrock, Penonome - Panama
11890	25.23	35		S. Fernando (VOA) - Philippines	15100	19.87	100	R. Nacional, Lisbon - Portugal
11890	25.23	50	WRCA	Bound Brook - U.S.A.	15100	19.87	50	Moscow - U.S.S.R.
11890	25.23	50/200	KRCA	Dixon - U.S.A.	15105	19.86	1 OBX4C	R. El Sol, Lima - Peru
11895	25.22	12		R. Dakar Inter - Fr. W. Africa	15110	19.85	50 GWG	BBC, London - Gt. Britain
11895	25.22	0.25	HPS62	Ondas Centrales, Santiago - Pan.	15110	19.85	50	Moscow - U.S.S.R.
11895	25.22	7.5/50		Manila (VOA) - Philippines	15110	19.85	10	Petropavlovsk - U.S.S.R.
11895	25.22	10/100		R. Yugoslavia - Yugoslavia	15115	19.85	7.5 PRC24	R. Gaucha, P. Alegre - Brazil
11900	25.21	10	VLG11	Lyndhurst - Australia	15115	19.85	1 HCJB	Voz de los Andes, Quito - Ecuador
11900	25.21	100	VLB11	Shepparton - Australia	15115	19.85	7.5/50	R. Free Europe - Germany
11900	25.21	0.25	OQ2AB	R. Elisabeth, Elisabethv. - Belg. C.	15120	19.84	35	Colombo - Ceylon
11900	25.21	50	CKEX	R. Canada - Canada	15120	19.84	50/60/100	RAI, Rome - Italy
*11900	25.21	5	CE1190	R. Coop. Vitalicia, Valpar. - Chile	15120	19.84	5/25/50	Vatican City - Italy
11900	25.21	50/60/100		RAI, Rome - Italy	15120	19.84	25/100 HED7	Schwarzenburg - Switzerland
11900	25.21	10	XEXE	La Voz de Mexico - Mexico	15125	19.83	100	R. Nacional, Lisbon - Portugal
11900	25.21	20	CXA10	S.O.D.R.E., Montevideo - Urug.	15130	19.83	5/100 VUD	AIR, Delhi - India
11900	25.21	25/100	WGEO	Schenectady - U.S.A.	15130	19.83	35/50/100	Tangier (VOA) - Tangier
11910	25.19	50	MCO	BBC, London - Gt. Britain	15130	19.83	50 WRCA	Bound Brook - U.S.A.
11910	25.19	100		Budapest - Hungary	15130	19.83	100/200 KCBR	Delano - U.S.A.
11910	25.18	0.5	HSK7	R. Thailand - Thailand	15135	19.83	50 JOA6	Tokyo - Japan
11910	25.19	50		Moscow - U.S.S.R.	15135	19.82	7 PRB23	R. Panamericana, S. Paulo - Brazil
11914	25.18	50		Karachi - Pakistan	15140	19.82	50 GSF	BBC, London - Gt. Britain
11914	25.18	50	OBX4R	R. Nacional, Lima - Peru	15140	19.82	50	Moscow - U.S.S.R.
11915	25.18	5/100	VUD	AIR, Delhi - India	15145	19.81	7.5/50	R. Free Europe - Germany
11915	25.17	20		Damascus - Syria	15145	19.81	64 ZYK33	R. Jornal do Commercio - Brazil
11915	25.17	10	HCJB	Voz de los Andes, Quito - Ecuador	15150	19.80	100	R. Nacional, Lisbon - Portugal
11920	25.17	100		Allouis - France	15150	19.80	5	R. Corporacion, Santiago - Chile
11920	25.17	100		R. Nacional, Lisbon - Portugal	15150	19.80	7.5 YDC?	Djakarta - Indonesia
11920	25.17	20	BED4	Taipeh - Taiwan	15150	19.80	50 YDC	Djakarta - Indonesia
11920	25.17	50		Moscow - U.S.S.R.	15150	19.80	10 OAX4T	R. Nacional, Lima - Peru
11924	25.16	100		R. Nacional, Lisbon - Portugal	15150	19.80	100	R. Nacional, Lisbon - Portugal
11925	25.17		ZYR78	R. Bandeirantes, Sao Paulo - Braz.	15155	19.80	7.5 ZYB9	Tangier (VOA) - Tangier
11930	25.15	50	GVX	BBC, London - Gt. Britain	15155	19.80	100	R. Difusora de Sao Paulo - Brazil
11930	25.15	50		Moscow - U.S.S.R.	15155	19.80	100	Hörby - Sweden
11935	25.14	25		R. France Asie, Saigon - Vietnam	15160	19.79	100	Shepparton - Australia
11940	25.13	5/100	VUD	AIR, Delhi - India	15160	19.79	10	Lyndhurst - Australia
11940	25.13	7.5		Djakarta (Air Forces) - Indonesia	15160	19.79	8/100	Munich (VOA) - Germany
11940	25.13	5/25/50		Vatican City - Italy	15160	19.79	5/100 VUD	AIR, Delhi - India
11940	25.13	100		R. Nacional, Lisbon - Portugal	15160	19.79	100	R. Ankara - Turkey
11940	25.13	35/50/100		Tangier (VOA) - Tangier	15165	19.78	50 OZF7	Herstedvester - Denmark
11945	25.11	1	YSAXA	La Voz Panamericana - El Salv.	15165	19.78	75/200 WLWO	Bethany - U.S.A.
11945	25.12	50	MCQ	BBC, London - Gt. Britain	15165	19.77	5 ZYN7	Ceara R. Clube, Fortaleza - Brazil
11945	25.12	50		Moscow - U.S.S.R.	15170	19.78		Peking - China
11945	25.12	50	CRNX	Sackville - Canada				

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
15170	19.78	0.25	OQ2AA R. Leo, Leopoldville – Belg. Congo	15315	19.59	35	Salonika (VOA) – Greece
15170	19.78	10	TGWA R. Nacional, Guatemala C. – Gnat.	15315	19.59	50/200	KCBR Delano – U.S.A.
15170	19.78	5/100	VUD AIR, Delhi – India	15320	19.58	100	VLA15 Shepparton – Australia
15170	19.78	5/10/100	LKV Fredrikstad – Norway	15320	19.58	100	VLB15 Shepparton – Australia
15175	19.77	5/10/100	LLM Fredrikstad – Norway	15320	19.58	50	VLC15 Shepparton – Australia
15180	19.76	50	OZF8 Herstedvester – Denmark	15320	19.58	10	VLG15 Lyndhurst – Australia
15180	19.76	50	GSO BBC, London – Gt. Britain	15320	19.58	50	CKCS R. Canada – Canada
15180	19.76	50	Moscow – U.S.S.R.	15320	19.58	30	OLR4B Prague – Czechoslovakia
15185	19.76	7.5/50	R. Free Europe – Germany	15320	19.58	50	OZF9 Herstedvester – Denmark
15190	19.75	5	PRK9 R. Inconfidencia, Belo Hor. – Braz.	15320	19.58	50/60/100	RAI, Rome – Italy
15190	19.75	50	CKCX R. Canada – Canada	15320	19.58	50	Moscow – U.S.S.R.
15190	19.75	7.5	CBFZ Montreal – Canada	15325	19.58	5/100	VUD AIR, Delhi – India
15190	19.75	100	OIX4 Pori – Finland	15330	19.57	100	Honolulu (VOA) – Hawaii
15190	19.75	5/100	VUD AIR, Delhi – India	15330	19.57	35	S. Fernando (VOA) – Philippines
15195	19.74	20	TAQ R. Ankara – Turkey	15330	19.57	25/100	WGEO Schenectady – U.S.A.
15200	19.74	100	VLA15 Shepparton – Australia	15330	19.57	75/200	WLWO Bethany – U.S.A.
15200	19.74	100	VLB15 Shepparton – Australia	15330	19.57	50	Moscow – U.S.S.R.
15200	19.74	50	VLC15 Shepparton – Australia	15335	19.56	50	Karachi – Pakistan
15200	19.74	10	VLG15 Lyndhurst – Australia	15335	19.56	100	ORU4 Brussels – Belgium
15200	19.74	35/50/100	Tangier (VOA) – Tangier	15340	19.56	35/50/100	Tangier (VOA) – Tangier
15200	19.74	75/200	WLWO Bethany – U.S.A.	15340	19.56	200	KCBR Delano – U.S.A.
15205	19.73	5	XEFC La mas Espanola – Mex.	15340	19.56	50	Moscow – U.S.S.R.
15210	19.72	50	VLC15 Shepparton – Australia	15345	19.55	100	LRA SIRA, B. Aires – Argentina
15210	19.72	10	VLG15 Lyndhurst – Australia	15345	19.55	35/50/100	Tangier (VOA) – Tangier
15210	19.72	50	GWU BBC, London – Gt. Britain	15350	19.54	100	Allouis – France
15210	19.72	5/100	VUD AIR, Delhi – India	15350	19.54	5/100	VUD AIR, Delhi – India
15210	19.72	50/200	KRCA Dixon – U.S.A.	15360	19.53	50	Moscow – U.S.S.R.
15210	19.72	50	WRCA Bound Brook – U.S.A.	15365	19.52	7.5/50	R. Free Europe – Germany
15210	19.72	50	WDSI Brentwood – U.S.A.	15370	19.52	25	ZYC9 R. Tupi, Rio de Janeiro – Brazil
15215	19.71	2	YNV R. Nacional, Managua – Nicarag.	15375	19.51	50	BBC, London – Gt. Britain
15215	19.71	35	VLA15 Okinawa (VOA) – Ryukyu Isl.	15380	19.51	5/100	VUD AIR, Delhi – India
15220	19.71	100	VLA15 Shepparton – Australia	15385	19.50	5/25/50	Vatican Radio – Italy
15220	19.71	50	VLC15 Shepparton – Australia	15390	19.49	50	Moscow – U.S.S.R.
15220	19.71	40	ZL10 Huizen 1 – Holland	15395	19.49	20	Damascus – Syria
15220	19.71	7.5	OBX4I Wellington – New Zealand	15400	19.48	100	Issoudun – France
15220	19.71	0.2	WDSI R. Restauracion, Lima – Peru	15400	19.48	50	BBC, London – Gt. Britain
15220	19.71	50	JBD3 Brentwood – U.S.A.	15400	19.48	50/60/100	RAI, Rome – Italy
15225	19.70	50	VLG15 Tokyo – Japan	15403	19.48	0.5	OZL Angmagssalik – Greenland
15230	19.70	10	VLH15 Lyndhurst – Australia	15405	19.48	5	PZC Paramaribo – Surinam
15230	19.70	10	VLA15 Melbourne – Australia	15410	19.47	50	Moscow – U.S.S.R.
15230	19.70	100	GWD Shepparton – Australia	15415	19.47	20	PRD23 Emis. Continental, Niteroi – Brazil
15230	19.70	50	BBC, London – Gt. Britain	15420	19.45	50	BBC, London – Gt. Britain
15230	19.70	50	WDSI Johannesburg – S. Africa	15425	19.45	15	Kotwijk – Holland
15230	19.70	50	WRCA Brentwood – U.S.A.	15430	19.44	25	R. France Asie, Saigon – I.-China
15230	19.70	50	Yakutsk – U.S.S.R.	15430	19.44	10	Kaunas – U.S.S.R.
15230	19.70	50	Moscow – U.S.S.R.	15435	19.44	50	GWE BBC, London – Gt. Britain
15235	19.69	50	JOB5 Tokyo – Japan	15435	19.44	7.5/100	BFEBS, Singapore – Malaya
15235	19.69	20	BED3 Taipei – Taiwan	15435	19.44	25	R. France Asie, Saigon – Vietnam
15240	19.69	10	VLG15 Lyndhurst – Australia	15440	19.43	35/50/100	Tangier (VOA) – Tangier
15240	19.68	100	Allouis – France	15440	19.43	50	Moscow – U.S.S.R.
15240	19.69	5/100	VUD AIR, Delhi – India	15450	19.42	50	GRD BBC, London – Gt. Britain
15240	19.69	35/50/100	KRCA Tangier (VOA) – Tangier	15450	19.42	50	Moscow – U.S.S.R.
15240	19.69	50/200	Dixon – U.S.A.	15470	19.40	50	Moscow – U.S.S.R.
15245	19.68	7.5/50	Manila (VOA) – Philippines	15500	19.35	100	Budapest – Hungary
15245	19.68	35	S. Fernando (VOA) – Philippines	15525	19.32	20	R. Cult. da Bahia, Salvador – Braz.
15246	19.68	10/100	R. Yugoslavia – Yugoslavia	15595	19.23	4.5	Radio Chad – Fr. Eq. Africa
15250	19.67	7.5/50	Manila (VOA) – Philippines	15595	19.23	50	Brazzaville – Fr. Eq. Africa
15250	19.67	75/200	WLWO Brthany – U.S.A.	15635	19.18	50	Madrid (RNE) – Spain
15250	19.67	100/200	KCBR Delano – U.S.A.	15640	19.18	0.25	HSK8 R. Thailand – Thailand
15255	19.67	50	GSI Karachi – Pakistan	17445	17.20	5/25/50	Vatican Radio – Italy
15260	19.66	50	GSI BBC, London – Gt. Britain	17677	16.97	1	CR5SB Sao Tome (Portuguese)
15265	19.66	50	8/100 R. Excelsior, Sao Paulo – Brazil	17700	16.92	50	GVP BBC, London – Gt. Britain
15270	19.65	50	Munich (VOA) – Germany	17705	16.94	5/100	VUD AIR, Delhi – India
15270	19.65	50	Karachi – Pakistan	17715	16.93	50	GRA BBC, London – Gt. Britain
15270	19.65	50/200	KRCA Dixon – U.S.A.	17720	16.93	20	TAD R. Ankara – Turkey
15270	19.65	50	WDSI Brentwood – U.S.A.	17730	16.92	50	GVQ BBC, London – Gt. Britain
15270	19.65	50	WRCA Bound Brook – U.S.A.	17735	16.92	5/25/50	Vatican City – Italy
15275	19.64	20	Deutsche Welle – Germany	17740	16.92	50	BBC, London – Gt. Britain
15280	19.63	8/100	Munich (VOA) – Germany	17740	16.91	5/100	VUD AIR, Delhi – India
15280	19.63	7.5	ZL4 Wellington – New Zealand	17750	16.90	50	Karachi – Pakistan
15280	19.63	50/80/100	WRUL Scituate – U.S.A.	17750	16.90	50/80/100	WRUL Scituate – U.S.A.
15280	19.63	50	Moscow – U.S.S.R.	17755	16.90	7.5/100	BFEBS, Singapore – Malaya
15285	19.63	10	CR7BG R. Clube de Mozambique – Moz.	17755	16.90	5/10/100	LKW Fredrikstad – Norway
15285	19.63	50	WRCA Bound Brook – U.S.A.	17760	16.89	5/100	VUD AIR, Delhi – India
15290	19.62	20	LRU SIRA, B. Aires – Argentina	17760	16.89	35	S. Fernando (VOA) – Philippines
15290	19.62	5/100	VUD AIR, Delhi – India	17760	16.89	7.5/50	Manila (VOA) – Philippines
15295	19.61	100	Allouis – France	17760	16.89	25/100	WGEO Schenectady – U.S.A.
15295	19.61	35/50/100	Tangier (VOA) – Tangier	17770	16.88	50/60/100	RAI, Rome – Italy
15300	19.61	50	GWR BBC, London – Gt. Britain	17770	16.88	50	Karachi – Pakistan
15300	19.61	7.5/100	BFEBS, Singapore – Malaya	17770	16.88	35/50/100	Tangier (VOA) – Tangier
15300	19.60	2	DZH8 »The Call of the Orient« – Phil.	17770	16.88	50/200	KCBR Delano – U.S.A.
15305	19.60	25/100	HER6 Schwarzenburg – Switzerland	17770	16.88	50	WDSI Brentwood – U.S.A.
15310	19.60	50	GSP BBC, London – Gt. Britain	17775	16.88	40	Lopik 4 – Holland
15310	19.60	7.5/100	BFEBS, Singapore – Malaya	17780	16.87	8/100	Munich (VOA) – Germany
15310	19.60	50/80/100	WRUL Scituate – U.S.A.	17780	16.87	5/100	VUD AIR, Delhi – India
15310	19.60		Sverdlovsk – U.S.S.R.	17780	16.87	7.5/50	Manila (VOA) – Philippines
				17780	16.87	50	WRCA Bound Brook – U.S.A.

kc/s	Metres	kW	Stations
17780	16.87	50/200	KCBR Delano - U.S.A.
17784	16.87	25/100	HER7 Schwarzenburg - Switzerland
17790	16.86	100	VLB17 Shepparton - Australia
17790	16.86	50	GSG BBC, London - Gt. Britain
17795	16.85	75/200	WLWO Bethany - U.S.A.
17800	16.85	100	VLA17 Shepparton - Australia
17800	16.85	100	VLB17 Shepparton - Australia
17800	16.85	50	VLC17 Shepparton - Australia
17800	16.85	15	OIX5 Pori - Finland
17800	16.85	100	Honolulu (VOA) - Hawaii
17800	16.85	50/60/100	RAI, Rome - Italy
17800	16.85	100	Hörby - Sweden
17800	16.85	100/200	KRCA Dixon - U.S.A.
17800	16.85	10/100	R. Yugoslavia - Yugoslavia
17805	16.85	1.5	DZI6 »The Call of the Orient« - Phil.
17810	16.84	50	GSV BBC, London - Gt. Britain
17815	16.84	20	Deutsche Welle - Germany
17820	16.84	50	CKNC R. Canada - Canada
17820	16.84	7.5/35	Colombo - Ceylon
17820	16.84	100	TAV R. Ankara - Turkey
17825	16.83	5/10/100	LLN Fredrikstad - Norway
17830	16.83	5/100	VUD AIR, Delhi - India
17830	16.83	100/200	KRCA Dixon - U.S.A.
17830	16.83	75/200	WLWO Bethany - U.S.A.
17830	16.83	50	WDSI Brentwood - U.S.A.
17840	16.82	100	VLA17 Shepparton - Australia
17840	16.82	50	VLC17 Shepparton - Australia
17840	16.82	1.5	Radio AEF - Fr. Eq. Africa
17840	16.82	5/100	VUD AIR, Delhi - India
17840	16.82	75/200	WLWO Bethany - U.S.A.
17845	16.81	20	Deutsche Welle - Germany
17845	16.81	50	WRCA Bound Brook - U.S.A.
17850	16.80	50	PRL9 R. Nacional, Rio de Janeiro - Br.
17850	16.81	100	Allouis - France
17850	16.81	50/200	KCBR Delano - U.S.A.
17860	16.80	100	ORU3 Brussels - Belgium
17860	16.80	50	BBC, London - Gt. Britain
17865	16.80	20	Damascus - Syria
17870	16.79	50	GRP BBC, London - Gt. Britain
17890	16.77	50	GVO BBC, London - Gt. Britain
17890	16.77	7.5/100	BFEBS, Singapore - Malaya
17890	16.77	10	HCIJB Voz de los Andes, Quito - Ecuador
18025	16.64	50	GRQ BBC, London - Gt. Britain
20000	15.00	1	WWV Washington - U.S.A.
21460	13.98	50/200	KRCA Dixon - U.S.A.
21470	13.97	50	GSH BBC, London - Gt. Britain
21500	13.95	50	WRCA Bound Brook - U.S.A.
21510	13.94	100	ORU4 Brussels - Belgium
21520	13.94	75/200	WLWO Bethany - U.S.A.
21520	13.94	25/100	Schwarzenburg - Switzerland
21540	13.93	8/100	Munich (VOA) - Germany
21560	13.91	50/60/100	RAI, Rome - Italy
21570	13.91	50	WDSI Brentwood - U.S.A.
21590	13.90	25/100	WGEO Schenectady - U.S.A.
21610	13.88	50	WRCA Bound Brook - U.S.A.
21650	13.86	75/200	WLWO Bethany - U.S.A.
21670	13.85	5	LLP Oslo - Norway
21680	13.84	10/100	R. Yugoslavia - Yugoslavia
21690	13.83	35/50/100	Tangier (VOA) - Tangier
21700	13.82	5/100	VUD AIR, Delhi - India
21730	13.81	5	LLQ Oslo - Norway
21730	13.81	50	WRCA Bound Brook - U.S.A.
21740	13.80	50/200	KCBR Delano - U.S.A.
21750	13.79	50	GVT BBC, London - Gt. Britain
25000	12.00	0.1	WWV Washington - U.S.A.

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